

Michael H. Hugos gets lost in alphabet

Online Brokers

Customer accounts accessed in fraud

Two of the top online stock her learners in the ITS dirclosed that overseas backers broke into some of their custower accounts during the

in combined losses of at least \$22 million and leading both firms to take steps to bolster their recurity measures Jerry Bartiett, CIO at TD Ameritrade Holding Corn. said in an interview last week

Europe and Asia who used via Troisn horses or other malware to steal the account onto public commuters or their own infected PCs

existing accounts or created dummy ones to buy shares in little-traded stocks, driving the prices up so they could self previously purchased shares at a profit. Customers of ETrade Financial Corn. were also victimized by the so-called nump-

to FTrade officials. Bartlett said no data was stolen from TD Americade's own databases nor were its corners breached during the attacks. But he acknowledged

Froud noor 48

everything is big budgets, staff. projects, challenges - and

and-dump scheme, according IT has tremen-

dous clout We asked CIOs at eight colossal companies for their views from the top.

At corporate giants

like GM and Chevron.

STORIES BEGIN ON PAGE 21.

Energy Efficiency Standard For Servers Moves Forward

adoption may hinge on user pressure difficult to compare products. But the U.S. Environmental IT managers' efforts to hold

down escalating server power and cooling costs are being stymied because hardware vendors report energy efficienProtection Agency and a group of major vendors this week plan to release a final draft of a protocol for measuring the energy efficiency of servers. The protocol could be formally approved and put into use within a year. However, the leader of the effort to develop it said last week that it will be important for more to insist that their vendors adopt the standard

"It's wrine to take some pressure by the customers. If the customers demand it, the manufacturers will change really fast," said Jonathan Koomey, a consulting professor at Stan-

ford University and a staff Energy, page 43

ID Thefts Slam

scheme: losses total \$22M at two firms information of more lossing

The backers then used nest three months, resulting

that the attacks were launched by identity thieves in Eastern keylogging software delivered

BUSINESS PROCESS MANAGEMENT reporate malleasance. The result sks for small departments is now of

tantologilliantimalialistatatatati

.... PERIODICA S PO BOX 1346

NO. OFFICE HE ARLES-1246

FPA vendors finalize draft of protocol:

cy in different ways, making it

Vol. 40 Iss. 44 OCT 30

2006

TIME OUT OF MIND IT overe aren't tracking 'coft costs' of bottom: purhayments man sa

AS VESOA SO SHALL VEREAR Michael II. Hunne oute lost in alphabet coun as he tries to explain SOA PAGE 18

ID Thefts Slam Online Brokers

schome losses total \$22VLat two firms

Invest the for online stock

broker new in the U.S. disc. - San of Albert on organia is a financial backe into some at their encomer accounts during the man those mouths resulting in combined lower of at least 522 million and beating both turns not if contemp to believe

hern Barthett (RO at 1 D) Amornio de Holdino Corn. and in an interview last week that the attacks were familied. Future and Assessing used Les bassesses soften are delenered ext I me un bestern en extinct

contracted to the contract of on a party to killy The backers then mad on a tame is committee or a marked Jumpis ones to buy shares in httlastakel stocky den me the prices up so they could will enviously conclused shares at appoint f restormers at 1 Trade Lucino al Corre more than to rimized by the so called miniindictions whome according

natures store of users become

to I Trade affectly Washing of Law Later to servers breached during the marks Burbe acknowledged



Idealled and Marcell control and delicated in facility BNBBJFTeeeeeeeeeeeeeeCAR-RT LOTeeB-358 10234945/CB/78 CU200644 002 UHI

PERIODICALS PO BOX 1346

3222-4 NN NRBOR HI 48186-1346

At corporate giants

like GM and Chevron. everything is hig budgets, staff. projects chal-

longos - and IT has themendous clout. We asked

CIOs at eight colossal companies for their views from the top.

Energy Efficiency Standard For Servers Moves Forward

I-PA, vendors finalize draft of protocol: adoption may hinge on user pressure OV DATESCH THEROPEAU deficult to compare products

11 managers efforts to hold Jones excellente server rower and cooling costs are being vendors report energy offscienev in different ways, making it

Protection Agency and a group of more vendors this week plan to release a final draft of a protocol for measuring the enengs efficiency of servers. The

enotocol could be formally arproceed and one entouse within ayear. However, the leader or the effort to develop a said last

sure by the customers. If the of schorers will chance really tast," said forathan Koomey, a ford University and a staff

Energy, page 42



for users to most that their 'It's going to take some pres

The Highly K

VOLUME 1 - ISSUE 1

Windows Server 2003

For all stories on to

LONDON STOCK EXCHANGE CHOOSES WINDOWS OVER LINUX FOR RELIABILITY



Ton House for The Highly Reliable Time

HE HEADOUARTERS BUILDING of the London Stock Exchange, located in London's Paternoster Square.

eliable Times

usus microsoft.com/setthefacts

special edition

Reliability Is Key in the "World's Capital Market"

B1 MICHAEL RETTENDORF

LONDON, Oct. 2006 — When an IT system must process 15 million real-time messages per day, with peaks at 2,000 messages per second, even one second of downtime counts. That's the pressure the London Stock Exchange faced when building Infolect, the Exchange's real-time stock-ticker information delivery system.

The solution had to have rock-solid reliability on confide reliability in confide place. Reliability is one of the but attributes of the Eschange in its technology systems. These systems have to work every day, 247 ft, on the sure the markets are there," and CD lower of the state of the sta

In Lester's view, long-term reliability is a function of a solid relationship: "We wanted a deep parnership with an organization that could deliver the kind of mission-critical technology that we needed, and we felt Microsoft delivered just that." For the full London Stock Exchance case study,

plus other case studies and independent research findings on the reliability of Windows Server versus Linux, visit microsoft.com/setthefacts



BREAKING NEWS: London Stock Exchange Achieves Record Reliability

London Stock Exchange CIO David Lester (above) cites Windows Server as key to maintaining system reliability and performance.

LESTER SPEAKS OUT:

"We looked at a number of different platforms for our Technology Roadmap, and we lined up our business requirements with the capabilities of those platforms, and Windows Server was the clear choice."

-David Lester, C10, London Stock Exchange

JOURNALISM BEAT: Continued growth for reliability-focused newspapers A world-



GET A JUMP ON SECURITY THREATS.

Go Pro

Introducing Intel vPro technology. Greater security built in to your desktop fleet.



CONTENTS

NFWS

is quickly evolving from a bool to automate simple tasks to a session-ortical technology that helps companies stay on the right side of regulators. improve development operations and out coats

10 Sixed CRM software users are still waiting for Oracle to offer a detailed road map outlining its plans for Siebel products.

Physicing Seny-made laptop batteries could cost companies \$372 million in labor and lost productivity, an analyst reports. But IT manager say they aren't tracking such costs.

22 The Industral Medicare and Medicaid services agency is starting to load set claims records into a new data warehouse, but end users will get a say on how much information should be put there over time.

4 Blobal Dispatches: German railway Deutsche Bahn is testing a facial-recognition system that it hopes will help prevent terrorist attacks on trains.

4 BIC will amounce several new offerings in its NetWorker line of backup and recovery software at the Storage Networking World conference this week in Orlando.

G Q&A: Ken Brill.

In executive director of The Uptime
Institute, says IT
executives face
radically changing
budget needs as facilities costs outpace the price of

data center hardware.

5 th Tech international shifts tools to a flat-rate model that it says will cut costs for users.

OPINIONS

On the Mark: Mark Hall reports that if you can't afford a fulltime brand-monitoring service to keep an eye on the use of your corporate brands online, you might want to opt for a one-time snanshot service.



10 Don Turnant says HP's business partners who are exasperated with the company's customer support performance are speaking out in an effort to help, not harm.

to thinhaul M. Hugos gets lost in an alphabet soup of acronyms as he tries to explain SOA — and discovers how IT history sometimes has a way of repeating itself.

Frankly Speaking: Frank Hayes
Tadvises Microsoft to let Vista
slip one more time so serious
issues can be resolved with the
operating system.

INSIDE

DEPARTMENTS/RESOURCES
At Deadine Briefs
News Briefs
Letters
If Cereers

ONLINE

ONLINE DEPARTMENT Broking Nove computerworks.com/com/

Mountainer Subscriptions computer world, complement frowledge Centers computer world, complepted the Center Stone - |

Mega I

What difference does IT make in some of the biggest corporations in America? To find out, we talked with eight Fortune 10 CIOs and discovered that their companies — for all their titanic scale and global reach — are grappling with some of the same problems that challenge you. PACASE SERNIS ON PAGE 21.

22 Where Sten is Supertunity. At Chevron, managing large amounts of data and buge projects is seen as an opportunity to gain huge benefits.

housing in the Sigma. Bank of America's investment in quality methodology is paying off in more efficient proceases, better alignment with business and even increased sales.

firsting financials of Bools is Ff. Gh size and buying power have allow the automaker to force IT standards on vendors to reduce integration headach

Remark these tensorative IT. The challenge for Process & Gasable's T group is to live up to the company's equation for creativity in helping speed reducts to market.

31 Repsing Employee Bruis Person, IBM is nountry talking of its worldwide pool of employees.

the shoulding a technology infrastructure that can integrate the energy giant's new acquisitions and business projects quickly and cost-effectively.

Form on Plantilla. Standardization allows Exaon Mobil to do more with eas and respond with agility to changing susiness needs.

Cititing a Beliane. The IT regardention at Pizze has a double challenge to support efficiency through nochesley mandarie while at the same time fostering impovation. RPM was so

we decided we can

[now] fix other busi-

well accepted.

BPM Is Helping Firms Control Critical Business Processes

Business process management tools becoming mission-critical FF need

LITTLE STREET

were meany severa oral actions large burings on the late 1990s. - I and 2000 for minute like price frame and kinkbacke man correction burn main of the to build teament many chocken bona transpo Christophe Marcel enterening coffee and on himself of Innerto Insurance Bedom has oute that proper on ord insurance firms by New York Amornes General Flint Spitzer in the early 2000s. Telegranone a lot of augustions about or instanton's and disclosure of u have limerate of fore carry from There has been in in-

Justin wale institutive for aual its improvement provinces Integra, founded last year, is banking on business prayers management by brokers to help provide its clients with a coss to real-time account

One of the core musions of the company - and how in the company - page from from competitors - is haffer. thene that we do." Mary I said "To do that effectively" be

and "area pord BPM" Integra is using San lose: have I HEA Systems Inc.'s A mediana BPM Some to rined through no acquisition of bused for in Man ht for a new chent-services application set to as live in the first quarter of Name Advanced and

In addition to providing clients with up-to-date information, the application will give Internacional suppliers into processes through a dashboard, he added.

BPM was once commonly viewed as a tool that a single

to a serious and the serious ac partial in character to sale name file the constant tacks has the toeftredown in or own in the being most to handle mission-critical tasks manufer mission critical tasks analogs said. The growing interest in BPM is bring facted by maturing RPM spires that allow companies to model new man companie violance in corner and Armonete so sub-

stantial battern line naturns DECKE SAN servicey. HIRDMI in a really control rort of our architecture and how mers are going to be doing their work "Marvel said



The BPM resuprence is also bediesend by the annuath in resident of the growth of urbented an hitectures (SOA) anabase said Many of those tioner was Bliff enforcements on hestrate the execution and

make up a business process Soot Trading LLC and its making the line time in Chicago, last month beyon Chicago tasi memin began be mission oritical assistation process. That process includes domens of atoms that most be taken on the third Eriday of concern our time transaction of when option contracts expire and ten has rough at the their

find and of the committee of the

and tracers made made men those options "Those is no reason form to believe the IRPMI software is me reliable enough to use in a mission writing anvironment " said Gowind Rabindran, Snot Trading's director of software Assolution of State o have measured sinch there is in

project sers completed

People are used to doing projects

He also noted that the effort to

instrumenth or total for confessions med amond strong

The commons currently uses Lombardi Software Inc.'s Tours Home and Software in - Little - - - -Northway Sout Trading along to having sector the prants are to plan a single rise.

recreate and render's tools have I rick management procand Bakinden added Such processes could be such processes countries - and the second of the second manager is a tracer tracere an escapasaed investora tital none Public temporal "As room pony, restriction was now as occur they can get to the sopermista popula sight areas

propriate people rigin away, and there will be the app TeamWorks includes on Felinse-based modeline tool for building provinces a portal for pustaing processes, a poprocess ontimization software Lombardi said

Continued on pose 6

BPM Helping Consolidate Development in Rhode Island

ment tooks to automate and state of Rhode Island is using BPM primarily as part of an effort to

Rhode Island began mistalling RPM tools about a year acc, after by multiple state agencies.
The RPM tools estalled in Rhodi Interest of the state of the st

the PR suite of tooks licensed from FieNet Corp., which IBM acquired earlier the month for \$1.6 billion The mate also metades anethration ment tools, saud Mark Treat, who was director of the state's project

nth for a post at Science Apolica tions International Com-At the time it adopted the BPM on the anile software developmen Rhode Island is using the BPM

development, united in building have applications for tasks such as iccension and forms that can be cartowered by individual agencies. "By greating a single BPM equipme ment, we will be able to build so nicotons that most diverse accord reeds " Trust said. "It becomes a

shaced extractnucture rather than Tracy Emerion Williams, the

central IT development group is alnew applications that are or will be

> Treef, who spoke about Rhode Island's BPM project last month at BrainStorm Group Inc.'s BPM elerence in Wrginia, said in a later reference that the new loof suite and methodology have allowed what was "a great '80s Cobel shoo" to morow

where they do big upfron its development ampesses move to the FileNet suite and the centralize development faced a "fair

By creating a single BPM environment, we will be able to build applications that meet diverse agency needs. It becomes a shared infrastructure rather than every state agency having its own en-

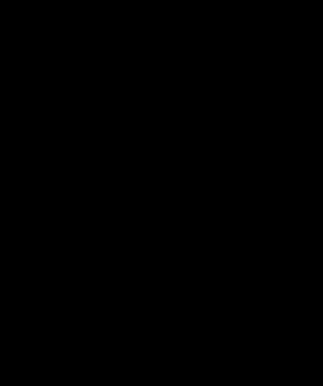
vironment for every application it manages



amount of resistance to change A lot of agencies are used to own First, the new methodology reno their own systems." Treat said cures if developers to move from a control. Some people in the IT group traditional waterfall approach to an ve process that incorporates job might not be sale feedback from users therephout a project. In the past, developers The state met flut residence

isled because they are straid then training. In particular, training has ate the lear while building the stells.

MEATHER HAVENSTEIL



BPM Is Helping Firms Control Critical Business Processes

Business process management tools becoming mission-critical IT need

FTER LAWSUITS
were filed by several state attorneys genstate attorneys

ency into client transactions. Christophe Marcel, enterprise software architect at Integro Insurance Brokers in New York, noted that in Inwaiss filed against several insurance firms by New York Attorney General Ellot Spitzer in the early 2000s, "there were also of questions about

transparency and disclosure of where [insurance] fees came from. There has been an industrywide initiative for quality improvement processes." Integro, founded last year, is banking on business process management technology to belp provide its clients with access to real-time account

access to reasons aportal.

One of the core missions of the company — and how it aims to differentiate itself from competitors — is "offering transparency across everything that we do," Martel said.

"To do that effective," he

said, "you need BPM."
Integro is using San Jonebased BEA Systems Inc.'s
AquaLogic BPM Suite (gained through its acquisition of Paego Inc. in March) for a new client-services application set to so live in the first quarter of

2007, Marcel said.

In addition to providing clients with up-to-date information, the application will give Integro executives visibility into processes through a dashboard, be added.

BPM was once commonly viewed as a tool that a single department could use to automate low-level administrative tasks, but the technology is increasingly being used to handle mission-critical tasks across an enterprise, users and analysts said. The growing interest in BPM is being fueled

analysts said. The growing interest in BFM is being fueled by maturing BFM suites that allow companies to model new processes, identify potential bottlenecks in existing processes and demonstrate substantial bottlenecks in existing processes. [Internal or continuation of the processes of the pro

"[81'M] is a really central part of our architecture and how users are going to be doing their work," Marcel said. BPM was so well accepted, we decided we can [now] fix other business processes



The BPM resurgence is also belstered by the growth in companies moving to service oriented architectures (SOA), analysts said. Many of these firms use BPM software to

make up a business process.

Spot Trading LLC, an equity options trading firm in Chicago, last month began using BPM software to handle its mission-critical expiration

using BPM software to handle its mission-critical expiration process. That process includes dozens of steps that must be taken on the third Friday of every month before 4:30 pm, when option contracts expire and traders must state their intentions about exercising those options.

incre is no reason for use to believe the (BPM) software is not reliable enough to use in a mission-critical environment, said Govind Rabindran, Spot Trading's director of software development. "The products have matured such that it is

just another tool for software

The company currently uses Lombardi Software Inc.'s TeamWorks BPM software and Web services.

Next year, Spot Trading plans to begin using the Austin-based vendor's tools

blockers and underground proesses, Rabindran added. Such processes could be used to automatically alert a manager if a trader violates an established threshold that could creater isk for the company, Rabindran add. "As soon as these kinds of exceptions occur, they can get to the appropriate people right away,

are audit trail," be added.

TeamWorks inchades an

Eclipse-based modeling tool

for building processes, a portal

for users to collaborate and

process-optimization software

Lombardi said.

Continued on page 6

BPM Helping Consolidate Development in Rhode Island

By creating a single BPM environment, we will be able to build applications that meet diverse agency needs. It becomes a shared infrastructure rather than every state agency having its own environment for every application it manages.



It keeping up with IP security requirements and compliance is important to your branch operations, good news: Juniper makes any branch network better, Our Secure Services Between features the multi-layered network and application-level protection your enterprise demands, plus enough horsepower to ensure your security solution is never a LIA to WMN bottleneck.

Industry insiders say remote offices are your weekest link. But Jumper's \$50 family delivers the muscle to protect your high-speed LNN as well as your WAN — at all branch sites. Find free white papers, demos and more: www.jumper.nd/temach

Juniper Net.

1.888.JUNIPER

BPM Trends

Corporateweds use of business process management is expanding because:

• Regulations such as Bosel II, the Sachanes Only Act and the Health Issuence Portobility and Accountiability Act require better control of lusaries processes to prevent tempering and to provide audit I rails.

Lower-cost and easier-tose BPM software is becoming validable as vendors such as SM unbundle components of IPM suites.

**Adoption of composite apventors that constant ap-

increasing.

Continued from page 4 Harcourt Assessment Inc., a developer of content for scholastic tests, plans to have its first application using BPM software from Savyion Inc.

software from Section for, running by the end of this year. San Antonio-based Harcourt intends to use the Santa (Clara, Calif-breed vendor's BPM sune to manage the workflow, associated with its sore function providing potential jest questions to claims

content.

The company, which has long gathered feedback from clients verbally over the phone or in person, plans to use the BPM nodes to create an automated online process for the tack; said Roberta Henson, a program manager at Harcourt. The company expects to offer the online capability to 500 miles.

ternal users by year's end.

By the time of full rollout
next year, about 1,500 internal
users will be using the application. Hornours aid.

Savvioris BusinessManager same is designed to allow users to model new processes and then use simulation to identify potential bottlenecks before a process goes into godine too. the company said.

Herson said she expects the automated process to keep track of when clients approve test anestions. The percentage of questions that are approved by clients, and other nerss. It is really going to highlight to us where we need to put more efficiencies in and increase the response time for our customs on Tobaca for

Enterprisewide BPM

According to Foresser Research Inc., the BPM market will more than double between 2008 and 2009, growing from \$1.2 billion to more than \$2.7 billion; borresser analyst Ken Vollmer said that as stories from early adopters bithble to the surface, more und more companies are eyeing BPM touch for massion exitied.

applications.
"Organizations are taking a serious look at how BPM suites can improve business occurrence." he said.

in addition, the maturity of BPM suites is prompting many organizotions to shift BPM from a purely departmental effort to an enterprisewide endeaver, Vollmer added. While-earth BPM tools for

cused mostly on integration and process improvement, the products have evolved into 'Comprehensive technology stocks that can also provide as SVA foundation.' Voltmer said SRA International Inc., a systems integrator in Fatrias. Vs., now hos four pracessor.

running in a RPM system.

d than is used by 800 to 1,000 employees; said Jason Adolf, project manager at SRA.
The company's goal is to eventually have all 5,000 of its

the added.

"We're petting such good feedback labout the RPM proceed that we have a prioritization list that changes according to the needs of the business." Adulf said.

SRA began using Vienna, Va.-bused Handy-Sofi Global Corp.'s Bizblow BPM suite in January to help accommodate the company's rapid growth.

he said
Although SRA's earlier manual customer and subcontractor invaicing processes had
worked adequately. The volume of transactions we were
handling was too great for the
current staff," he explained.

SRA had a mix of paper-based processes and processes that nove bandled with desktop tools such as Microsoft Access. Outlook, and Feed. That disjointed strategy didn't allow the company to standardize

ibility into processes, he said.

"When things are on paper, there is no way to tell how long things take to process."

Adolf said. "There is no way to anarrogate how long things as

on a person's desk

Users Find BPM Cuts Admin Costs, Saves Time

BUSINESS PROCESS management tools can cut administrative costs and the time it takes to complete a task by supporting auto regited and-to-end processes, some

The Lance Amestrong Foundation for example, hes used BFM tools to be resist a process that induces the tens it bales to create a direct mad let and send out solicitations from all long as 60 hours to less than five meutes, said Betty, Other Nacierson chall governtion officer as for the Amestronic Hongerstron officer as for Amestronic Lance and Betty, Other Nacierson chall governtion officer as for Amestronic Foundation.

based neoprofit.
In addition, the organization
which has been soing BPM
softwer from Lumbert Softwere
les, for the past nine months – has skehed the time it falses it to close
the monthly fearcal books for its
retail e-commerce size by 80%

she said.

The charitable loundation also used the BPM tools to create a process that helps its donation.

By using the statistics and metries accumulated in Bir-Flow, the company doubles the efficiency of its subcuntractor invoicing process.

Adulf said. He noted that the BPM system may be expanded to analyze employee performance and to manage the security clearance process required for government employees and subcontractors.

Adolf said commercial BPM tools can help companies overcome the moorious problem of getting users to adapt to the accompanying cultural changes. Such changes often impede the progress of BPM projects

Commercial BPM systems can accommodate development changes more quickly than custom built took can, Adolf said. That helped SRA quickly win the support of end users. Users were also travolved throughout the implementation process, since the com-

pany sought feedback from the start, Adolf added. Vormado Reality Trust, which owns and manages 58 million summer feet of real estate.

processing center more easily get matching funds from a donor's employer than was possible using the old, menual process, accordin

the old, menual process, according to Otter-Nickerson.
"We undertook BPM as a way to automate as much of our business.

nut the business efficiently." Other-Nickenson added.
Todd Jenuzz, vice president of application development at Vornack Really Trust, said that the commercial real estate company's see of BPM hijs allowed at to trus the

number of accounts psychie defice in each of its four divisions from the or sail to two at each location. "It allowed us not to have to separed the accounts psychial department every time we have an accusion," he said. "We venide?"

have to bring in an entire accounts payable stuff from the company that we purchasted "

nationwide, avoided user resistance to its BPM projects by cusuring that training for its system could be completed in 10 minutes, said Todd Januzzi, site mend but of profile rition

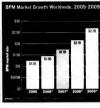
development.
The training process is "all based on drop-down menus," he said. "There wasn't a lot of lowstroking involved."

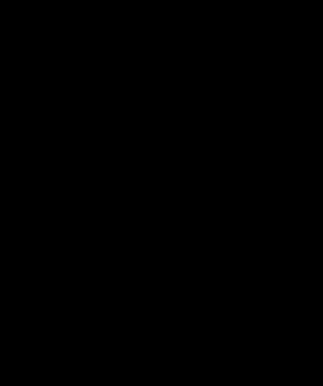
Vornado's first foray into BPM was an accounts payable and invoice-approval application; the company has since added several other processes to its HandySoft BPM tool.

which is available to 500 users. The next effort, to be completed by year's end, will have the tool manage the Paramas. NJ-based company's entire leaving process. The new application will automatically generate a leave after a prospective tenant indicates interest and employees perform rules with the readil choice.

Januzzi said.
"BPM was so well accepted, we decided we can Inow! fix other business processes," he

said P





IN DEPTH NEWS

of countings that are appropried by elicate and other items "It by Careton, and Other means. It as where we need to test more -Especies in and increase the CHILDREN IN AND INCICASE OF response time Enterprisonaide RPM According to Forrester Desearch loc the RPM market will man than double be-

turen 2005 and 2009, growing from \$1.2 billion to more than \$2.7 billion Econoster analyst Van Valleyer said that or stories from early adopters hubhis trom early adopters but his to the surface, more and more companies are evelor protection principle entries

diretions Wassainstians are taking a serious look at hour RPM

suites can improve busi amentions " he said In addition, the maturity of BPM suites is prompting many organizations to shift BPM from a purely departmental

effort to an enterprisewide endeason Voltmer added While early DDM took fo -----and process improvement the products have evolved into comprehensive technology stacks that can also provide an SOA foundation," Vollager said. SRA International Inc., a

there is no way to tell how long things take to process." systems intervator in Fairfax Adolf said. "There is no way to appropriate how long things sit Va. now has four processes running in a RPM system on a person's desk."

employees said large * 4-M project manager at SR A. The company's soul is to a ne company's gont is to eventually have all \$ 000 of its

eventually have all 3,000 or i employee We're cetting such good foodback fabout the RPM period that we have a priproject into we take about according to the mode of the

business * Adolf said SRA began using View Vs.-based HandySoft Global Corn & BirElow RPM suite in lanuary to help accomm

the company's rapid growth A behavely CD A's andler man ual customer and subcontrac-

tor invoicing processes had worked adequately, "the volume of transactions we were handling was too great for the correct staff," he explained. Defens installing BigEless SPA had a mix of naner-based processes and processes that man benefited with deckton tools such as Microsoft Access Outlook and Free! That dis-

iointed strategy didn't allow the company to standardize hest practices or provide visibility into processes, he said. "When things are on paper.

Du seine the statistics and metrics accumulated in Biz-Flow the company doubled the efficiency of its subcontractor invoicing process. Adolf said He noted that the BPM system may be expanded to analyze emoloyee performance and to manage the

security clearance process required for government em ployees and subcontract Adolf said commercial RPM tools can belt companies over

come the notorious problem of getting users to adapt to the accompanying cultural changes. Such changes often impede the neverses of RPM projects

Commercial BPM systems can accommodate developm changes more quickly than custom-built tools can, Adoli said. That beloed SRA quickly win the support of end users. Users were also involved throughout the implementa-

tion process, since the company sought feedback from the start. Adolf added. Vornado Realty Trust, which owns and manages 58 million square feet of real estate

Users Find BPM Cuts

automotion pagerge

nationwide avoided user re eletance to its BDM projects by ensuring that training for its system could be completed in 10 minutes said Todd Innurti

vice president of application The training process is "all based on drop-down menus."

he said "There wasn't a lot of kenetooking impland" Vornado's first foray into BPM was an accounts payable

and invoice-approval application; the company has since added several other processes to its HandySoft BPM tool. which is available to 500 users The next effort, to be com-

pleted by year's end will have the tool manage the Paramus, N.I.-based company's entire leasing process. The new anolication will automatically prograte a lease after a prospective tenant indicates in terest and employees perform tasks such as credit checks.

Innurri said *BPM was so well accepted. we decided we can (now) fix other business processes," be

Savvion's BusinessManager suite is designed to allow users to model new processes

Continued from page 4

Harcourt Assessment Inc. a developer of contest for scholastic tests, plans to have its first application using BPM software from Savvion Inc. maning by the and of this year

Sun Antonio-hased Harcourt intends to use the Santa Class Calif based wandor's near color to manage the work flow superisted with its core function providing no. tential test questions to clients and receiving feedback on that

The company, which has a use company, which has lone withered feedback from clients verbally over the phone or in person, plans to use the BPM tools to create an automated online process for the task, said Roberta Henson, a program manager at Harris The company expects to offer the online capability to 500 in-

ternal users by year's end. By the time of full rollout next year, about 1,500 internal users will be using the application Henson said

and then use simulation to identify potential bottlenecks before a process poes into production, the company said. Henson said she expects

the automated process to keep track of when clients approve test questions, the percentage

For DHL, the power of IT delivers over four million promises a day.

Unified and simplified package tracking: a logistical dream.

The best way for DHL, the world leader of delivery services, to move more packages is to move more information. CA software solutions helped DHL to unify and similarly its global peakage backing system. This increased elicitioney gave DHL the ability to deliver over one billion promises more accurately each year. It's more proof that customer service is back in shipping, Learn how CA software solutions enable enterprises like DHL to realize the full cover of IT al. coorn/us/somers.



Vacamita Namas FMC Evec CEO

Garage Samone chief technology George Symons, chief fectinos agement at FMC Corp. have been named CED of Yourouts Seen named UED on to service becker of the Committee of hald executive mosts at Leeath Sections les most to de 2003 Spaceting the part to his pools ment for Sympen will be named auch next month according to EMC eliberate

Sun Narrows Loss Solaris Sales Grow

Character and a soluted to me creased adention of the Column 10 countries curtain baland Suit Monacouthurs les out le forces sondcartly in the first quarter. which anded Bct 1 beating ana



Man Charned in

University Hacks 4.32-sextedd Florets man har been charged with back-nesses committee systems at hen un ductored unwerther and with belowe to be such a detected servers managed by Cambridge Mass -based Akamar Technationers for John Bornhard of Samennia was changed with two countract interhonally accommo a protected computer without

- Accepted No feet on to be a water in present and a \$200,000 fine on each charge. Cisco Names Jacoby To CIO Position

Cosco Systems Inc. has named Reberra Jaroby sener wre considered and CIR Jacobs, an 11-year Crisco veteran was press nucle use negulant of customer service and operational systems In that role, she had been hanthen some CIO didgs. Jacoby replaces Brad Boston who now heads the company's global gov

C ON THF



Critics. Misuse Can Damage . . .

... your company's brands on the Internet Business. mith strong comparts brook face adilemma in trains to a sected their real-timerile on the Wild Web countereds Malia Harina armed describer of digital branders comment our internal Name thought for in Madican Wic-

Beauty as to an otherwise to the outperforming on the mediators or her "His-

will have Photoshore like

Multimedia app developers want . . . to make some mose. More



HOT TECHNOLOGY TRENDS NEW PRODUCT NEWS AND INDUSTRY BUZZ

Streaming agns storage to get fester controllers to

La broken Inc. in Ambout laser allow as that with ourse ted break to a mouth. The and will compost me to each

And American transfer are to the or by the corlemnia mark with seven in nor are ratific RATIFICAL LICENCY CHIRIS no many of the analysis at a



Market Card

to believe us an assessment of Software keeps track of properties . . .

me to Mark Lucdman, CLD Mona et dit moscomes mes use their LRP systems tons of pager to manage their two, Fraedman's ivs. But he



control of a second in Do ember 11 Describer anole suit of Sangar Spare er de se and area and

and a wat by at books Low-line management in more account a all seem torre deserved multi-or-

Charge your handheld devices and ... synchronum your data at the same time. When cell chartes

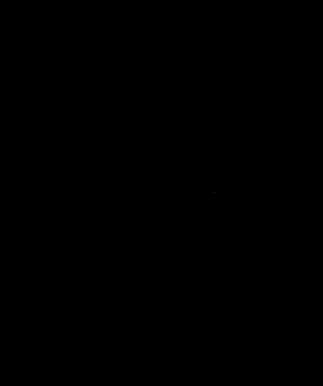
till a fill areas from and all the in the second second and workers some tomes lose them and Article of Litrory Lat. and the state of the state of the state of consecut broken broklischla frustration David Cuthbert thanks be carry not our more come nor a steam for libert and approximate a New York Aller Inc., or his hard one to a done the

done on through LSB parts on placer is ary behier socient corbbent claims that unlike other

SymCh can sanches reco data while you

handheld and host applicato too another calde

adapters go for So 95 Herefully your mobile their horoffields less often #



semite room.

rge Symons, chief tec ear for information t at Last Corp., o the local and annual and tion posts at Lando the prior to its 2003 onc. prior to its : on by EMC. A rea for Someon will be not

un Narrows Loss; niaris Sales Grow or color related to ind reducetion of the Se ration matern behad Sen p species respective the in the first quarter. h anded Oct. 1. heating one



lan Charged in

warnity Hacks A 32-mar-old Florida man has a charged with backing into dur systems at two o to busch a distribute of survice attack on managed by Carol ns.-based Akamai Tech-seies Inc. John Bembard of

s in prison and a \$200,000 o on each charge.

CIO Posi

co Systems Inc. has n ar Clace votores, was pren that role, she had been hanna some CIO duties, Jacobs

C ON THE MARK



Critics. Misuse Can Damage.

.... your company's brands on the internet. Businesses with strong composte brands face a dilemma in trying to control their trademarks on the Wild Web contends Malia Horine, general manager of digital brand mannonment consiste at NameDrotect Inc. in Madison Wie Brands are frequently mocked | weaving in streaming

and some Web sites vitifu difficult to put out somecompanies. (Go to Goorle thing visual that doesn't and type in "sucks com have to make noise " sava You'll get about 250,000 hire.) Harr Chafer a senior need-But even the people who do uct manager at Adobe hardness with you can cause Systems Inc. in San lose you harm, Horine says, Busi-He adds, though, that most ness partners and affiliates multimedia apps are created by people who have visual often unintentionally missay trademarks in oppositional finir but may lack expertise efforts they're allegedly makwith audio. Hence the need ing on your behalf, she says. for Soundbooth, software Although you may not want a now in been that will be of full-fiedged brand-monitoring fered as both a stand-alone service, you could tell your tool and a module within the brand protectors shout a one Adobe Production Studio suite. Shafer says Soundb time service, called the Brand will have Photoshon-like

in panyly advertisements

Aware Report, that Name-Protect is Inunching this week. features for editing sudio Horine says that for \$1,000. including an array of sound filters and special effects. you get a comprehensive moment in time recible of your hrands under fire — everything from cases of alleged infringement to knee-slapping parody sites. You've got noth-

or to lose but your reputation. fultimedia app levelopers want . . . and more applications are

HOT TECHNOLOGY TRENDS. NEW PRODUCT MEWR AND INDIRETEV RUTT RY MARK HALL

will come with dozens of will come with dozens or music samples. Shafer expects Soundbook to shin in mid-2007 pricing has

Streaming anns storage to get . . .

working with multimedia programs or managing a normaline stormer from nor formance and canacity are critical, says Ed Tierney, di motor of marketing at ATTO Toohanloon Inc in Ambant MY ATTO is developing a line of periol-attached SCSI

host adapters that will enter field trials next month Tier. new years each Every SAS and will connect up to eight disk drives to a single server or DC. The cards will work with seven major operation systems and support multiple RAID levels. Tierney claims that ATTO's lab tests have

media including audio "It's measured throughout at a sec. Commercial

versions of the cards should ship in February at a sug retail price of \$1.095 Software keeps track

of properties... ... from top to bottom. Accord ing to Mark Priedman, CFO of Accrement Inc. in Sente Monica, Calif., most comp nies use their ERP systems with Farel spreadsheets and tons of paper to manage their real estate portfolios. That's fine for a building lease or to customize soundtracks

Developers

will be able

to match the

length of

video cline

with just a

few mouse

shieles &c.

the software

two, Friedman says. But he claims that any organization with complex landholding obligations needs dedicated software like Accruent's. which also can keen tabs on property development their handhelds less often.



coveret 6.2 set for release in December adds support for third-party single-sign-on took as well as improved as improv and special fratures for

setalless with loss of locations Friedman says an average installation many shout \$1 million

Charge your handheld ... synchronize year data at the same time. When cell phones. Black Berrier Trace and iPode lose their juice, your mobile workers cometimes lose their

cool. A study in Europe last

year found that one of the too

curses of broken handbelds was and users tossing them in frustration, David Cuthburt thinks he can save your users some aggravation. Cuthbert is president of Newton, Mass. hosed Malleoble Devices Inc. which plans to shin its miniSypCb universal charges in mid-November, Like its big brother, the SynCh foro nounced "cinch"), the mini model can charge mobile PCs, or you can use an adapter to connect to a wall

nhie or a car's lighter



data between handheld and host applications, eliminating the need for users to tote another cable Pricing for the mini-SynCh is \$14.95 and adapters go for \$6.95. Hopefully your mobil kers will throw

By 2010, the increase in expense to power and cool servers is projected to be approximately four times the increase in new sensor energing. The IBM System v3655 Evanoss can bein control asing energy costs starting today. How? It comes with an ingenious technology called PowerExecutive" which allows you to allocate nower to each server beloing to optimize and save you money? Only IBM has it. The x3655 is just one of many Evergee systems designed for hydroses performance computing. With IRM incorpation comes standard So why waste energy on anything else?



AUTOMATICALLY PUTS YOUR BUSINESS INTO **ENERGY-SAVING MODE**



Mission, critical availability and performance in an affordable parkage

Monitor nower consumption and allocate nower where needed with PowerExecutive 64GB maximum low-power DDR2 memory

Choose flexibility and robust I/O configuration with IBM eXtended I/O

Featuring the Next-Generation AMD Opteron** processor with AMD PowerNow!** technol Limited warranty: 3 years on-site³

From \$2,359° or \$61/month



Make all Discounts or wife a mile Albert J. All has the argument or region. But it has a less a quarter of the mile of the property of the pr

WHY WAIT? PAY SO FOR THE NEXT 3 MONTHS

Get the System x3655 Express now and defer payment for the next 3 months

I earn more at

bm.com

1866-872-3902 mention 104CE45A

es fried hon out a court among when

--hardfelme in on in on an electronic catalon. The oller filled managed the in home ral courts in Texas, and un-

tracle's Buying

con Continues --oper of of the \$210.2 million in ca is said that it will income MetaSely into its Commuad the operation. The deal in and to close by year's end

it Torrent Works th Device Makers

es in their desires ons Inc. and ONA be all signed acres

ed on Opteron

all her has sensited its first

Siebel Users Seek Better Road Map From Oracle

Customers say they are still waiting for | hetter integrate all of its prodfull delivery on promise of acquisition

MUNICIPAL OF SIGNAL moment or steer men sast week san ing for Oracle Corn to deliver on the promises it made when it served to here the CPM coftware maker a

Some Siehel CRM nerm in. serviewed at the Oracle Open-World was seen former been

last work said Oracle has been elous to provide details on its pledge to integrate Siebel and Oracle products and to proval its long-term plans for its CPM

nearbact Since The \$5.8 billion deal closed --- Tier this year Julic Reeyes, CRM leader for

the office of the CIO at Electonnic Data Systems Corn. said she's looking for a good man outlining Oracle's plans for the Siehel middleware products used by the Plano Texas-based

FDS runs Universal Application Network middleware which uses Web comices to consequences office Clobal as plications to other software and Universal Customer Moster, which eathers information shout a company's customers

for analysis FDS also uses Siebel CRM tools and wants a smooth growth path for those prod-

ucts. Reeves said. She said Oracle executives have given mixed messages about the future of the Siebel middleware products. De-

pending on Oracle's plans, EDS may have to replace the Siebel middleware with software from Oracle Reeses noted. "It's an open question for the future," she said.

At a press conference during the show, John Wookey. vice president of application

development at Oracle, said development at Oracio, said supporting both the Universal

Customer Master and Uniwersal Application Network He also said the come plans to use the Siebel middle.

were technologies in the Fig. cion middlessams it is building

Fasing Migration Decrease said the honer that

protion to new versions of its tools. The process is now onits costly, mostly because EDS has to customize each new merion the said *Easing that migration and

helping customers upgrade without significant financial drain is very important." Demos seid Some Siebel customers

at the conference said that they want more information on whether and how Oracle intends to integrate its inter-

nally developed and acquired products An executive at an IT service es provider called on Oracle to

ucts, including Siebel software. The ways make saled to se main anonymous and did not

want his company identified, CDM -- frame while the PT services provider's headouse services provider's newquarhuman resources and E.Brei. near Suite financial sentications. He said he honer Oracle will holid links between those

and other makerts a otner products. The user's division has several thousand employees who rely on Sighel's field see

Orașile manus to sore the mi vice emplications to support The appare The user also called on On acle to release a schedule for rolling out common integra-

tion standards for its software "Ideally I'd like a detailed road man about when all the (Ocacle) products will converse and what the architecture will look like and how it will feel and how to navigate

through it " he said A couple of Seebel users said that Oracle's services operation has equaled and in some seres exceeded that of the former Siehel Systems Inc. Dichard Nanier business do. Group, a software coprolaine firm and castems integrator in Bloom Taxes said software natches and unwades are easier to locate on the Oracle Web site shan they had been on Siebel's In Fact uses Siehel's hosted On Demand CPM applications Namine did not attend Onen

OpenWorld

roras. "In all our dealines with Oracle, we notice better communication, more efficiently handled service requests and barically more information than Siebel offered, he said. Mosein Schneider an anabut at The 451 Gereen in New York sold the lumi is still our on exactly what Oracle will

eals from its Siebel rearchase As Fusion develops, the technology that made Siehel desirable to customers could eet stripped down as Oracle creates a common CRM annication set, he noted #

velopment manager at InFact w Anns, Linux St

The World According To Paulina

Fam the router of potent at am a green Light for progress

this is my world





Dynamic Networking from the new AT&T



Sony Battery Recalls Don't Figure in IT Cost Equations

Lleave not tracking their evnenses for replacement work

A HE NEED to out millions of laptop PC better made by Sony Corn. hereuse they could cause fires isn't fazing 15 IT mapagers.

who last week described the internal discurrions as "min mal? and "nert of the cost of dealing with technology* In fact, despite a report by a consulting firm estimating that the replacement process

could impose hidden costs amounting to nearly \$400 million on corporate users two of the IT managers interviewed by Commuterworld said that the battery situation has had a silver lining within their orea-

"We need the recall as an opportunity to put our hands

on everybody's laptop to pro The U.S. Centers for Medica dates and also the replacement & Medicaid Services (CMS) hatteries, if needed," said Bill last month began loading Moore technical infrastrucinformation into a new da ture manager at the Museum warehouse that is designed of Modern Art in New York. to eather for analysis purnoses all of the medical and

A Good Excuse Only about 20 of the myseum's

ns needed new batterion. But Moore said the recalls gave IT 'a good excuse to ing in the lantons of users who didn't want to hassle with coming in before."

Eight of 25 laptops needed new batteries at Riester Corp. said Dan Peterson, director of tising firm. The labor amo ed to about 10 hours of work by an intern, "so our costs weren't too high." Peterson said. "Actually, I kind of wish more laptops were affected because most of lour) users need new botteries anyway."

The replacements of the hium ion batteries began in August, when Dell Inc. recalled 41 million of them - a total that it later increased by 100 000 Cines then wendow such as Apple Computer Inc. Lenovo Group Ltd., Toshiha Com and Com itself hour recalled batteries sold with

their laptops. Sony last week issued a new recall in the ITS. and said it expects to replace 9.6 million batteries altogether A report on the recells rebeend this month by I Cold seased this month by J. G Mass said that replacing each

officered bettern will cost comnanies \$125 on aversee, based on the work time lost by end users and IT technicians plus the cost of shipping new and

I kind of wish more lantons were affected hecause most of four! users need new hat teries anyway

old batteries between offices Anabus lack Gold who wrote the report, calculated that the unreimbursed costs would add up to \$625,000 for a company that has to review 5,000 batteries. In all, he pre-

dicted that swapping out the

batteries in corporate laptops will result in added costs of "That's an overhead tay on using laptops, and, of course.

manufacturers won't cove that cost " Gold said "In fact they may laugh at you if you Peterson was the only IT consers out of the 15 inten

viewed who said he had info mally tallied the so-called soft costs of replacing the recalled The covernment of Kane County III replaced the hot-

The CMS also hopes that having a single, unified source

of information to analyze

would improve its shilling to

dentify potential fraud in

Within the next week or

announce a contract worth

more than \$50 million with

for a new program that will

provide technology for min-

Electronic Data Systems Corp.

two the CMS is expected to

claims, Evangelist said.

tenies in about 50 of its 400 Dell lantons but didn't bother counting the labor time innobard and David Siles the

------County's cases technology or Sometimes it costs more to teach the noft costs involved so track the sort costs involve with them? he said

School Crouse a mobiliry interretion analyst of Children's tegration analyst at Causan Magnital Inc. in Cohembus Ohio said the hospital has re-

placed the batteries in 20 of its 160 Dell leatons As for the staff time that went into the replacement of

fort. "you'll never set that cost noid back " he said. But Crouse added that the hospital didn't ers spent on the harrarian Crain Machine on unabest at Exercise Comm in Ach

land. Mass. said many large companies should be able to ive the time and effort isoshad in location effected batteries because they use which can much the name and locations of users to PC and bettery serial numbers &

Health Agency Begins Effort To Pull Together Claims Data

prescription drug claims collected by the agency.

But beyond its first phase the project is dependent on feedback from business units about the data warehouse. according to John Evangeli director of integrated data and

Evangelist said the CMS is currently loading the prescription drug claims data it has been collecting since lanuary under the new Medicare Part D program into what the

agency calls an integrated data repository. The CMS plans to put all of the prescription data for 2006, as well as information on medical claims filed by hospitals last year and this

next spring. That will involve 16TB of data, Evangelist said. After the initial loading process is completed, busidetermination on bow much data will be useful" to add to the new system, be said. As a result. Evangelist said be a result, Evangeust said be couldn't provide details about

the project's overall cost or the potential for phasing out existine data warehouses. Single Platform The CMS currently house

shout KOTR of data in mul tiple data warehouses that aren't linked to one another. There isn't a very easy way . . to look at all this data without pulling it together." Evangelist said. He noted that the agency's goal is to develop a single system for storing all of the claims it receives, including those filed by doctors ces, and then integrate the

nformation with data from

ing the claims data for signs of fraud and abuse The CMS is building the integrated repository with data warehouse technology from NCR Corn's Teradata unit The agency is also using Infor-

matica Inc.'s extract, transform and load tools and Cognos Inc.'s business intelligence software as part of the enterprise ware house project, said Evangelist. Stephen Brobst. chief tech

nology officer at Teradata, said the model being used to build



THE CMS initially will store be and prescription drug claims the repository is designed to capture detailed data for

analysis, not summary data "If you start summarizing data you're not able to see the relaoshins in the way you need to - that total picture of all the different health care deliery [methods],* Brobst said The new system will also

require the CMS to check additional categories of informa tion for data quality problems Brobst said. In the past, the agency's data cleansing efforts have focused on informstion required for payment of claims, such as diagnosis and procedure codes. But now Brobst said, demographic in-formation and other categorie need to be cleansed as well to ensure that analysis results

Your enterprise information is exploding,

NOW IT'S UP TO YOU TO MAKE IT WORK

When businesses get serious about INFORMATION MANAGEMENT AND MOBILITY they get Sybase.

Regist up a serious desire Languy pair data inflashed bette meet level. Cli mei the common start d'airl datam (Conspirable and leger de serveurs plans de coloni and qui formatione de tre princip de format in plans en explosit coloni and participate de la princip de format in plans explosit de coloni and serve de son de coloni and coloni and colonia an

SYBASE

GLORAL DISPATCHES

German Pailway Tests Riometric Technology

III Nove Diesel

Munich Mayor Touts Start of Shift to Linux

CH Many has produce toil speed do . I work its my ration to I sums

THEOLOGIC WEDGES



More to contra mal the me My resoft torre y mak the strengthly core

primines 150 the city flow expects (on 10 11 he can a relate of the source The sales of the same of the same

and the trained the cost of the project Complian (S1) million (S1)

CAD Plans NetWeaver Development Service

TERDAM water are development blessless on authors with a richard part for educations assure its NetWester annears

SAP announced the subscription Lo bl-1 the leadurers contention leave to consider the property of others to the state of the state of the state of the efference will melade for show

Developer Sensorie (Website that the NetWeater apply at the Podt so house many days for and chart technol and others by horse of NetWest Comlation sales in lators, the Middle List and Arra a declined to disclose pricing all on the flat with representative

 Debter 8: DOM/VINALIBRIES a committee Afric Buckers

Briefly Noted

nas TA 5 believe accountition of Macrosco 54.5 billion acquisition of Mercur arranged that beginning impacts competition in Europe. The FC had competition in Europe. The EU had investigated whether the combinamany or of a see mercury s product acclessment management market ■ PAUL MELLER IND NEWS CERNICE

Iterion a London-based firm that regardes propert management. raises project numajement. molementation consulting services ingumentation constraint on w. departments Framont Calif -bared Seers Atlante said it experts the servicition to strengthen its Furn-

case extraorrise energines. Terms of the deal warren't disclosed has bought Mountain View Calif. based Counterpane Interret Security Inc., which remades

managed security services to about 550 companies, London-based RT said Counterpare will become a decision in its global services many The nurchase price wasn't disclosed but a BT spokeswoman said it was in the "tens of millions of riolland a property Manda CAN IDD NEWS SERVICE

EMC to Unveil Backup Monitor at SNW

control bathers better perior

the object reading will

LMt. NetWorker backup

that the common does offer t tools alled SetWorker for Exmalest a Enterprise Strategy tarone Inc. in Miltord Mays sud I Mr. s Backup Advisor softmane may still appeal to

NetWorker Dishboard lacks a

Les testine that he reatines.

the hackers loss of Micro

soft I schange servers None

conduse the groding labe said.

and Common Lof North order

And Mt. spokesman

Other recoveraments expected of Storage Matuarities World Limite or the crutal direct Usef recourse enhance Suvernore ilso noted than

meets to the IBM Section Streets DSBCOO Turbo that will be assis able Nov 17 starting at \$178,000 Shwill also being not one models of its 7000B type marks

MEW PRODUCTS

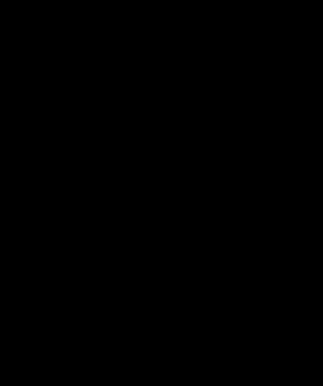
to be a published for 26 clusters of S5 400 for a 20 cartridge pack and amond to Virtualizer storage management enthage which will be explicitly in

reunce has introteStewage NAS urrigances available Dec. 4 start

rop at \$200,300 and \$92,000 some companies. She said it includes some features, such is customized reporture and alertone, that are not included in NetWorker Dashboard.

Other soltman: products that EMI will appoint at the NAW conference in lade Backup Manager for Share-Point intand slone bucker molecular for Macrosoft all resilience and ESM North Worker Module for Meditoch The biner tool can be used to back up data stored in the Meditoch Dealth Care Informarion to stem from Medical Information Technology Inc.

in Westwood Mass LMC NotWorker Dishboard Version LO runs on Windows Lunus and Unix and will be in all this next month starring a \$2,000 LMc Backup Man aver for SharePoint Version LO runs on Windows and will be a alabic max month at irrun at \$2.500. EMt. NetWorker 10 runs on Windows, Linux and Univarid is available now starting at \$4,950 F





GLORAL

German Railway Toete Riometric Technology

ERMAN RAILWAY COMBAN Deursche Bahn &G is testing Deutsche Bunn AG 15 sessing - streamen intengen survenier any attempts by terrorists to smucel hombs onto its trains which carry

1.8 million possengers duite Jame Bule director of cornorate semain or Bodie board Destroy Bahn curity at Bertin-based Deutsche Ban have lost work that the railway is "a

counts of masks" into a niles peniors tombine a femial accompision system designed to Artest known terrorists or other criminals and then alert security

As part of the pilot proi-As part of the poot prop up to som the resin risthen in the size of Mains in search of 200 people mbo have architected to have their pictures stored in a database. The testing will determine whether the hiometric software

can recognize their facial Comment of the second The Deutsche Bahn test **EMC** to Unveil Backup Monitor at SNW EMC Corp. this week plans to unveil new offerings in its NetWorker line of backup

and recovery software during the Storage Networking World confe ence in Orlando. The conference is sponsored by Computerworld and the Storage Networking Industry Association

The offerines include a backup monitor called NetWorker Dashboard that's based on core technology from FMC's older Backun Advisor monitor and features management interfaces used in the NetWorker line of products. said Mark Sorenson, senior vice president of information

management software at Hopkinnen Mass Joseph FMC Rob Emsley, EMC's senior

An International

follows failed attempts by terroriets to

follows failed attempts by terrorists to end of the World Con soccer tournamust which was held in Germany

ment, which was need in Germ a man or all included CEPART Munich Maune Touris Start of Shift to I incre

FTER SOME delays, the city of Munich is pushing full speed

about with its migration to Linux

on the deskton, and Mayor Christine Creek! likes what she cook "I'm no technology freak, but even

I must admit how ever it's been to mis grate to the new software," Strobl said last week in a speech at the Systems. 2006 event "We're very OLOGAL FACT

hanne with the results Munich's municipal covernment began replacing Microsoft Corn's Windows and Office software with desiston I inux and the OpenOffice.ore applications suite on

shout 14 000 PCs last manth The project started

marketing, said NetWorker

high-end tool.

& Marmaro I.I.P. a law firm

with about 400 attorneys in

beta-tested EMC NetWorker

Dashboard and said he found

it easy to use. However, Suy

to halt the beta test at one

point because the software

the FMC NetWorker backup

Douglas Suyer

operations engineer at

leffer, Mangels, Butley

root cause of backup

A spokesman said

shout a year later than Compiled by Mike Bucken

and recovery tool. The test was put on bold until the firm's San Dashboard offers better perfor-Francisco office unwarded from Marriag 22

e than Backup Advisor. helping users find the Suyemoto also noted that NetWorker Doubboard lacks a problems more quickly. key feature that he requires: the shiller to check backups the older product will which includes looking into continue to be sold as a the backum loss - of Microsoft Exchange servers. None-

theless, the law firm plans to purchase the product, he said. An EMC spokesman said Version Lof NetWorker Daubboard doesn't support Los Angeles and San Francisco. Exchange backups but noted

that the company does offer a change for such tasks. emoto noted that the firm had Lauren Whitehouse, an

analyst at Enterprise Strategy Group Inc. in Milford, Mass., only supports Version 7.3.2 of said EMC's Backup Advisor software may still appeal to

alana d but the city now arrests t planned, but the city now expects a nich's FT director said that the misers tion should be completed by 2008 and tion should be completed by 2006 an will come in below its budgeted cost of will come in perow its budget # 100H St All INC NEWS SERVICE

SAP Plans NetWeaver Development Service

AF AG will try to attract new Software development blood via nimed at helping developers create ap-plications using its NetWesyev integra-

tion technology 87-need the subscription SAP announced the subscription TechFd '06 developers conference

here two weeks any sevine it plans to lounch the comics part was The offering will include development and composition tools and will be made available through the SAP Developes Network a Web site that

serves as a central resource for build. ing NetWesser spelications Rolf Schumann, director and chief technolone officer in charge of NetWraver solution sales in Europe, the Middle East and Africa, declined to disclose pricine nlans for the subscription service. . ICHN BI ALI IDG NEWS SERVICE

Briefly Noted

NEW PRODUCTS

me companies. She said in includes some features, such as customized reporting and slerting, that are not inch in NetWorker Dashboard.

Other software products Mar FMC will announce at the SNW conference include Backup Manager for Share-Point, a stand-alone backup application for Microsoft Charaltaine and FMC Net. Worker Medule for Meditech The latter tool can be used to back up data stored in the Meditech Health Care Information System from Medical Information Technology Inc. in Westwood, Mass.

FMC NetWorker Dashboard Version 1.0 runs on Windows Linux and Unix and will be available next month starting at \$2,000. EMC Backup Manager for SharePoint Version 1.0 swallable next month starting at \$2,500, EMC NetWorker Module for Meditech Version 1.0 nuss on Windows Limit and Unix and is available now starting at \$4,950.

data center manager the

measured on mailability not

curr was more a data center

harmen that's the cole time

because that's the only tu

What also can companies do

can enable the names saving

People assume

whatever

reporting or BI tool

expensive, and they

are used to the notion

that it is restricted to

The QlikTech tool set can

a cortain number of

they have will be

Data Center Budgets Face Radical Changes

Consortium head says facilities costs are surnassing the price of hardware

The business value arisine from The business value arising fr ber of transistors on a chin will double about more tree was accuse about eve years, is being titree. costs of providing power, ity support for servers. Those costs now exceed the wice of the computine hardware, seve Ken Bell founder and executive director of The

Untime Institute Inc., a consortium of corporations that run very large data centers. In an interview with Computerworld last week he talked out those ecoloties couts and outlined what IT monorant can do to improve data center energy officiency

of's the bissest threat facing data menture? The economic benekdown of Moore's I sw

What do was mann by the 7 His.

toricity, sacrates constituted budget. been 5% of 11's total budget, of Manage I am a season that for cilities costs lincheding names consumption) are onine

to be climbing to 5%, will change the econor estion becomes Will IT get more money so the increasing portion of the budget that facili-

ties represents down't commed and other IT initiatives? Or will the increas ing facilities footel moult in curtailing other things? That's the economic truncation of Moore's I am

Phot's the business cost of the princes cost is that the unturn - imperment that people think they are going to get

is not going to be there. M-----

process is there is no incen-The application justification tire - there is the out no

I be approximation promitation includes all the cost Tonically When heal's then become from the burn will you are looking at just the IT mont server several? Who you are nowing in junction to has to from the section of C. The cost of the manoware and the

compares car't elements the on as how one that shows the equipment, look not cole of rmance per dollar but

falsol look at performance per watt. Be sharper on buying. IT has to become conscious of energy efficiency and put prescuer on the manufacturers to be more energy-aware. That's

the long term. A second thing many new servers, Finally, IT is to kill dead servers - servmanagers can reduce "bloot ore that are still remains but ware" - software with inefnot activable doing amothing ficient code requiring a history processor to get through it. New creek of an issue are de the lead in a data center is seen

se cooling systems? Most data centers are consuming from resented by servers that aren't doing amothing By turning 20% to 40% more energy then off those servers, you can cut they should becomes the cool. your energy consumption. The ing systems are not well onticommon issue in a computing COMMUNICATION OF A COMPANY units: You may see that one unit is debumidifying and the unit is denumiditying and the is to be middle to an own hours dueling cooling units

What was by does to comb. ernan mait on more to coult. Michaelly coal purposes in Antore? In 2000 at 500 -----

on courte You discourse the 1996. to 1 000 water per orbiner way to the of dead control in the and de anothine and my cessfully cool it. You could be totally incompetent, [and] you may not have done it energy. officiently but that was never managed on make the board solidate multiple servers onto a how hadly it was done. As the bigger platform, which will be density may cobined increases more energy-efficient, [Awd] IT the mask is ripped off and a user's responsibility becomes features that are now built into annument for computer masses mith microf floors the institute has recompeted hot aisles and cold nisles for over 10 years. It's nonented as an certimal colotion. But you go into compute mom after computer room and

you not that the assissment is lined up facing up one diseas tion. As a result, people have her more And if you have her mosts was no out and how more air conditioning.

such in-memory methods of dets analysis are feater than traditional online analytical

ocessing methods Schanker said Zyme chose Olik Tech's offering because it's far easier to train nontechnical users to run OlikView than it is to train them to use traditional BI tools.

In addition, because a new cube isn't required each time a hisrarchy — such as value servitories or product catego ries - changes, QlikView can be easily customized for new name he said Zame our une ally get clients up on Olik Tech within two to four weeks.

Cohanker added. OlikTech last week also brought out OlikView Publisher 4. a management tool for large-scale OlikView projects. The updated tool is designed to screamline security and automation administration, the company said.

OlikTech Moves to Broaden Heer Access to RI Tools

Olik Tech International AB last week unveiled a new pricing model for its business intel ligence (RI) tools that it contends will make it for cheaper for companies to provide an unlimited number of users with access to data analysis

and reporting tools Olik Tech, a maker of tools that allow users to analyze and query large amounts of data without having to aggregate it in a data warehouse said the new pricing option. OlikView for Communities, provides unlimited user access to its ObjeView Itl sooks for a flat rate.

The OlikView tools were previously sold only on a peruser basis. That option is no longer available.

Company officials declined to disclose the flat rate for the new program

Anthony Deighton, vice president of marketing at Radthe new model can help comnunies extend analysis and porting capabilities outside of Securable to Jame numbers of customers and partners.
"We take the user issue off

the table and simply talk about how many applications you want to roll out " said Deighto Michael Schanker, director of marketing at Zyme Solutions Inc., which current pays per-user fees for the Olik-Tech tools, said his company plans to take advantage of the new licensing model. Redwood Shores, Califhased Zyme which analyzes nnel data for clients in the bigh-tech sector, uses OlikView to provide reporting and analysis of data to its customore over the Internet Today, most Zyme clients

have a core group of power users who access OlikView daily and a much larger group ----the analyses only occasionally, Schanker said. The customers don't want free to fluctuate depending on user numbers of any given time, he said.

People assume whater reporting or BI tool they have will be expensive, and they are used to the notion that it is restricted to a certain number of users," Schanker said. "We don't want to ask our cus ers how many people will be using it each month. They don't want (their costs) to fluctuste because 20 more people

sooms the channel data

analyze and query data in memory, according to the company. Data does not have to be moved to a dislobated storage system prior to analysis as it does with traditional BI tools, the company said. In a research report released this month Stamford Conn-



YOU ALWAYS HAD THE BRAINS.



Introducing the new HP BladeSystem c-Class with Insight Control Management.



The new, intuitive HP BlodeSystem cCloss thinks just like you do — letting you monitor your infrostructure while helping to onolyze your future needs. First, HP's OnBoard Administrator gives you out-of-the-box settin and configuration combined

with power, cooling and enclosure management. After that, the Insight Control software steps in to let you control the rest of your environment, locally or remotely. And thanks to the integrated Insight Disploy — our unique ICD screen — you can interact right at the source to manage, dealow or twobleshoot.

Simply plug in the HP ProLiont BL460c server blode, featuring Dual-Core Intel® Xeon® Processors, and you'll get faster performance and the versatility to support 32- and 64-bit computing environments.

Use the HP BladeSystem c-Closs for your business and you'll experience greater control over your time and resources.

YouAlwoysHadlt.com/brains4



DOM: TENNANT

'In This Together'

N THE PANT SIX WEEKS. I've written four editorials that have addressed Hewlett-Packard's actions as they relate to corporate responsibility and accountability. I've repeatedly taken the company to task for its failure to foster an open, transport, customer-centric relationship with its users.

I recognize that in dotage so, I run the risk of being perceived as emgaging in opportunistic HP-bashing and having some sort of bias against HP. While a perception of bias is damaging for any journalist. In willing to take that risk rather than skirt issues I strongly feed warrant the attention of our routers.

The fact is, there is no incentive for anyone in my position to boshot in intr way damage. He or are other technology vender. My left of the content of the

more we stand to benefit.

Computerworld certainly isn't unique in that regard. The same is true of the technology suppliers user communities. And it's especially true of their contracts.

Consulting and services companies that have built their businesses by supporting IPP platforms have tied their fortunes so closely to HPs success that anything that damages HP damages them. So they're naturally as protective and supportive of HP as anyone wearing an HP badge in Palao Alto. But their exapporation is

beginning to surface.

Many of these partners are becoming increasingly distillutioned with the quality of products and services that HP is delivering. And there's no area of greater concern and frustration than customer support.

Some scathing assessments of HP's

and user communities.

of colline forum will have
of colline forum will have
publicized the fact, it's
no secret that the company is shifting much of its
costs Rica and China.
Chost a Rica and China.
The problem is that the
support rechnician in
the close of the company is the control of the control
product support to India,
Costs Rica and China.
The problem is that the
support rechnician in
these beaches neptor I no
community in the control of the control
product in the contro

often incapable of order incapable order

channels are showing up on forums like Google Groups and HP's IT Resource Center as slightly altered postings from individuals in China and budies.

and India.

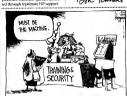
"This is neither professional nor credible and certainly begs the question of the value of an HP support contract," said one of the consultants. Brace Claremont of Migration Specialities International in Colorado. Claremont stressed that his motivation in raising the issue is not to bash

He but rather to help the company. The other consultant, who spoke on condition of anonymity, was highly critical of the current support function. It retailly is as if they view customers as an expense and incortrement to be handled as cheaply as possible. The said He, too, stressed that his interest is in helping HP understand customer expectations. This was not used.

We're all in this together.

Mike Rigodanzo, HP's senior vice president of technology services, says that customer feedback is acted upon by a dedicated team and that training is his top priority. My colleagues and I have every reason to join HP's users and partners in hoping lee's successful.





MICHAEL B. BUGOS

As Ye SOA, So Shall Ye Reap

GOTA CALL from a reporter the other day; he was doing an article on SOA and wanted me to clarify a few points for him. told him I dee plad to share my widedom on the widest. He began Probable; he began P

Now, this is pretty complex, so listent carefully and take notes.

"SOA sands for service-oriented architecture: that means you use services to orient your architecture. Are you

architecture. Are you with no?"
"OK, but please explain what that means," he persisted. I told him that you could think of all your existing systems as being made up of ser-

vices, You could create new systems by recombining services you already have and writing a couple of new services. Presto whole new applications developed right before the country of the

course, you have to be enached at make sure those services are loosely coupled so they bind properly at runtime.

"It this like code remarkfilty, which

IT people have been talking about since the mainframe days? he asked. I told him no, this is different. This time we really mean it; we're not just talking about it. His next comment was, "This sounds a like object-oriented design and programming. Aren't what

design and programming. Afent what you now call services the same as what you used to call objects? And weren't these objects also supposed to be looseby coupled?" He was starting to bug me with his smarty-pants questions. I patiently explained that object-

I patiently explained that objectoriented stuff is old hat, last century.



DON TENNANT

'In This Together'

------- Coon the partner

and user communities

as even a casual review

of online forums will st-

test Aithough HP been't

muhlicised the fact it's

Costs Pics and China

support technicians in

on outsomers, propleme

I set week I discussed this matter

extensively with consultants from

specialize in OpenVMS systems.

Both everessed concern about a

trend they've noticed over the nas

nicians are turning to public user

forume to solicit fives to customer

several months: These sumport tech-

two HP partners whose companies

N THE PAST SIX WEEKS. I've written four editorials that have addressed Hewlett-Packard's actions as they relate to corporate responsibility and accountability. Pue repeatedly taken the company to task for its failure to foster an open, transparent, customer-centric relationship with its users

I managing that in doing so. I run the risk of being perceived as enmaging in opportunistic HP-hoshing and having nome cort of hise senines HP. While a perception of hise is demoning for one investigation for william to rake that risk rather than skirt issues I strongly feel warrant the attention of and sendent

The fact is there is no incentive for anyone in my position to bosh or in any way damage HP or any other technology waster My livelihood not to mention the livelihoods of my colleagues, is dependent on the economic health of Communicated which in turn is donumbers on advertisers like HP. The stronger and more successful HP and other technology vendors are, the

more we stand to benefit Computerworld certainly isn't unique in that regard. The same is true of the technology suppliers' uses communities. And it's especially true of their partners

Consulting and services companies that have built their businesses by supporting HP platforms have ried their fortunes so closely to HP's comes that anything that damages HP damages them. So they're natu rally as protective and supportive of UP or anyone superior on HP hader in Palo Alto. But their exasperation is

beginning to surface Many of these partners are becoming increasingly distillusioned with the quality of products and services that HP is delivering. And there's no area of greater concern and frustration than customer support.

Some scathing assessments of HP's customer support performance are

like Cooole Course and HD's IT Recurrer Center as slightly altered nostings from individuals in China and India

"This is neither professional nor andible and certainly been the mustion of the unbus of an UD support contract " eaid one of the consultants Bruce Claremont of Migration Specistriae International in Colorado Claremont stressed that his motiva-

tion in minimum the issue is not to bash HP but rather to help the company The other consultant who snoke parent that the compa on condition of anonymity, was highly critical of the current support einstein. "It really is as if they view

no secret that the compa product support to India. customers or an expense and inconvenience to be handled as cheanly as The amblem is that the possible " he said He too stressed these locations appear to that his interest is in beloing HP unhe nearly trained and are derstand customer expectations. "It's often incanable of solunot an 'us vs. them' thing," he said.

not an us vs. them thing, We've all in this towether Mike Riendanzo, HP's senior vice president of technology services, says that customer feedback is acted upon bu a dedicated team and that training is his top priority. My colleagues and I have every reason to join HP's users and partners in hoping he's successful.

MICHARI U HIICOS

As YeSOA. So Shall Ye Reap

COT A CALL from a reporter the other day: he was doing an article on SOA and wanted me to clarify a few points for him. I told him I'd he clad to ghose mu a tota must I'd be gaid to snare my wisdom on the subject. He began by asking me to define SOA, "Oh how." I shought "This eury doesn't understand the simplest things. Where's he been for the past three years? I cuess it's my duty to explain IT to the masses." I took a deep breath and enid

This this is neatty complex to listen record the and take notes *SOA stands for service-priseded and iterature that means you use sen-

minus to opined toxes sechitecture Are you with me2 TOV but alease evoluin what that means * he percieted I told him that you could think of all your existing systems as being made up of services You could cre

ate new evoterns by recombining services you already have and periting a couple of new services. Presto - whole new applications developed righ before your eyes. Of ne, was have to

---vices are loosely coupled so they bind

perly at runtime roperly at runtime.
"To this like code reusability, which IT people have been talking about since the mainframe days?" he asked

I told him no, this is different. This time we really mean it we're not just talking about it. His next comment was, "This sounds a lot like object-oriented design and programming. Aren't what you now call services the same as what was used to call objects? And weren't those objects also supposed to be loose ly coupled?" He was starting to bug me with his smarty-pants questions

I patiently explained that objectoriented stuff is old hat, last century,



and the block of the latest state of the inthe way we do things now and that he should stop obstracing up his head with

and any contents a IT - - - into occur and a land and a land and a land of constioning but I did my best to stay calm and polite. "Tell me how this is calm and polite. "Tell me now this is I told him that SOA is standards based I floured that cought to put him in his I begured that ought to put him in his are like the old CORRA or DCOM standurds Bow he was mally nushing my

buttons now I took another deen breath and contioned "In the hed old does all up had

CORPA and DOOM and by marell was CORBA and IXOM, and let me test you, that was a hassle because people didn't arross on those standards so they weren't any good. Now, with SOA all weren't any good. Now, with SOA, all you do is make a Older — we can the code — and that's what lists all the SCAR on Sugar Company, a nen you to talk to each other over a service but. Think of the like a real base as in You I nink of that like a real bus, as in, 'too

"Then you get those SOA — or 'Sowa'

oles awart processing — we call

- createrns cooking cases, and was use

that CEP, or 'Sep' - to keep track of

what's soine on And then the last

thing you do to deliver those Can Court eventerns - we IT cares also like to call them composite applications or CA (not to be confused with the wendor called CA) is consto a negronalized Web-based nortal. And there you have it "Oh and I almost forest: You also cond to home a WED! — there Windle need to have a WSDL — that's 'Wizdle' mean services — in your company that mean services — in your company case

hand not like all that old stuff that

passed, not take all that old stuff that

and he had been able to the

Then, to really drive home my noise I said "And remember, SOA is hunis

The reporter was silent I formed Pd fine like notion thereast to him. Then he usked "Do you know what PCMCTA ____

"Of course" I said "Bersonal Commuter Measure Cond International puter nocuso "No " he said "It means 'Doorle Can't

Memorize Computer Industry Acronyms. 100011

WANT AND APPROVE Alter columniate and limbs to archives of previo

READERS' LETTERS

F-unting Relievers

OU COULD have it all with e-vetion if election officials Ad elegablished on a uniting ma. white that and each correct unto COLA: Go Back to Paner Ballots, Says E-voting Expert "Com mercraft.com Sept. 201. Then the unter could verify the vote he cast efore finalizing it. The votor would leave the paper ventication (which would not identify him) with the rescinct staff to sarue as an acalif tradition recovering Viscounce and calling the advantage of electrosic counting of unter without all the problems. executated with manual units count ion. The namer would just be used for recounts or spot checks of the e-voting machines to make sure the counts were correct. It has always

been up to voters to make sure they vote as they intended by inspecting Per vote Doubl MrClenshon

Software architect Oak Ridge, Times.

E LECTRONIC VOTING has and was it continues to be hearted by concerns over security, accuracy and integrity. But Air Rubin doesn't acknowledge that e-voling works very well in states like Nevada It's no coincidence that Nevada leading the nation is e-voting. Nevado's regulation of the gerning industry, particularly slot machines. is stricter than federal and most de regulations for e-voting, in fact rada introduced its e-voting steens in 2004. The state Germina ntrol Board's Electronic Services

Division which is responsible for fivers the security of electronic white machiner endown! the garton and darkened it comes Public alon docen't exam to be more that the Association for labor mation Technology Professionals. eriocited a pine-point recommo

tion for e-voting standards in 2004 based primarily on Nevertick assessor industry requisitions, or that the ATTD is leading other IT replaces organizations in influencing federal and state e-votion standards The AITP's nine points are:

1. Public access to the rejuted soft ware to normit independent inspec tion and confedence in its accuracy 2. Independent testing, including random spot checks, simfar to existing Newsyls remainings for plot

marriene testino. 3. Meticulous, constantly updated etundants for machines 4. Scrutiny of manufacturers to

ensure their independence from parties and candidates B. An independent testing lab with an arm's length relationship with the nufacturers it polices and that's open to inquiries from the public B. A mechanism for immediate Flection Day inspection of sus-

perted defection machines. 7. A mechanism for votes review of namer consists of ballots prior to casting a vote and preservation of those ballots for any required recounts. B. An elternative volen mecha

nism, such as early postal balloting for those who refuse to trust the nachmes. 9. Random but thorough Election Day perallel testing of voting

Making and has a setting it and the answer if states would incorn cate these recommendations in their e-votino requirements, secure and reliable e-voting would be attainable Chairman, AITP Lorislative A ST. Samuel Service

Painful Lessons "M SORRY to report that many of or in the treacher mod Michael

Hunon article "Lessons Learner From a Major Falure" (Ontoiner tun 211 and antidad in ac Mark A. Sandaraca

Number Ele Skills Still Count DLEASE THANK the series

of 'The Moth of Versatilists Inhairma Sant #1 for addression this industry ruse. Versatilists? Hal As someone recently in the job man but fushs thankfully landed a mood inh). I can affect that it was connifer skills and personality that employs were seekner. They weren't extrenatural in a loan list of serial skills Andre De Leon

Twoson, Artiz. VERSATILIST IS a transitional designation. In the future, the

grow will be the one who is technically strong and can work outside of Reinn in technology is no long about patting to do the cool shall it is about bringing value to the table.

wither if the monetary, social or when the parties of the season of the able to discuss the technology and show how it can bring upher to the business. This is not a versation had anthony of advanta Many other professions operate in this way by North Las Venas, Nev. should IT he are different? Tree Militaries Street St

> Colombia Obio Overreaction or

Acting Smart? DON TERMANT'S "Sloves to reaction to Dell's bottom recal was right on the mark (Aug. 21).

from m the cast neveral years. a let of folks have notice the idea that life should be totally sale at all times. Last I heard, none of usnot not of here alive so we need to make the heat of it Concinn a a commer of read of course "substant lust isn't a way to live. Planning for the recoverably likely what-life and moving on spectre to be the heat so-

personal to me. Tom Marray Senior principal software engineer, Worcester, Mass.

UST BECAUSE a lot of people does not mean that they are slaves. worker who will retain his job and to what-its. I agree that this recall is overkill. The chance of a fire is negligible compared to other day today risks. But the main reason I read the article is that I are a Dell owner As you know, lithium-ion cells have a very short shelf life of four years.

My laptop is two and a helf years and Co if a time for me to import in a new hattery amount I would be more than become to earthwater my sixcalled delective battery for a brand new battery from Dell, at op-cost to me I am more there are millions of cases who had the come Greek Kerner France Longdole Do

control in man Punhas com A LL OF US, including Ternant, will actively avoid harm if we can. Do you walk out on a golf course during a storm because the odds of getting hit by lightwins are low? Of course not. Do you hold an evoleting cherry bomb becau odds are you won't get killed? No. Would you not check your daughter's computer, and tell your side. "Don't were the orlds are low??

liant prepared a Dell E1650 lor my niece, who is going off to college. I charled the Dell Web site to make none has bettern own and bated. I was confident it wouldn't be, but would I tell her excepts. "Don't warry the with an inw "71 days think on Gery Lawry Executive vice president.

G.A.E. Seelin Inc.

Bhothide NV COMPATTERWORLD welcomes com ments from its readers. Letters will be edited for brevity and clarity. They should be addressed to James Eckle ters editor, Computerworld, PO Box

9171, 1 Speen Street, Framingham, Mass. 01701. Fax: (506) 879-4843. E-mail: letters@computerworld.com include an address and phone rusts ber for immediate verification.



4

SONICWALL

10.30.06





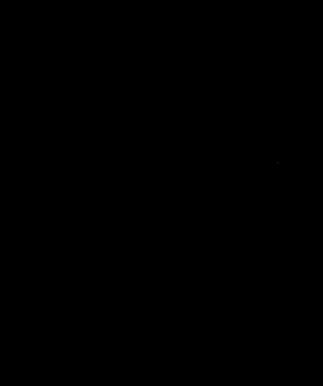
IAT DIFFERENCE does
IT make in some of the
biggost companies in
America? To find out, we
looked at the top U.S. comporations based
on market capitalization and Portune's
tup-to-and-utalization and Portune's
tup-to-and-utalization and Portune's
ways commanies with some striking stand-

goots companies were not meritaling affitativities and differences.

The Mega Eight have complex IT organizations with billion-dollar budgets and more employees than not companies to each picture, presenting a CO's view of the challenges and triumphs that make those companies unique. Still, we think you'll see some of the problems you're grappling with writ large in the stories that follow.

WHO ARE THE MEGA EIGHT?

MegalT



SPECIAL REPORT



How technology rocks these colossal companies.

If ST DITTE S Colors of the most set of the beginning of the beginning of the bedded in the ford Composition of the bedded in the ford Composition of Fortists of the bedded in the ford Composition of Fortists of the bedded in the fortists of the bedded in the bedded i

Firms and differences.
The Meast Judich was complexed our meastness with fullow all off poladors and most componence of missistees than most componences. So we related our the luminar element to to as a lap hint, pages artimized 10 Sex town of the challenges and it immights that make those comprising manys. Self we affine long the second computer summays. Self we think could see some of the problems yet to grapping matthew the problems yet to grapping and the within the firm.

THO ARE THE MEGA EIGHT?

Mobil Corp., Filopo Pisserin, The Proctor & Gamble Co., Marty Schoerrhaier, ConocoPhilips, Barbara J Desoer, Beak of Armerca Corp., Gary Masada, Chevron Corp.; Brian Truskowski, IBM; Ralph Sayoensia, General Motors Corp.; Vita Cassese, Plicer Inc.

MegalT

At **Chevron Corp.**, bigger is still better.

BY GARY ANTHES

HIVHOR CORP.

accumulates data at a rate of ZTB a day, or a rate data is seen as another a sochiacle data or a cochiacle data or a rate data in a r

Technology Co.

It's perhaps not surprising that in a company where all numbers are big — 5004 billion in sales, 10,000 servers, Intillion e-mail increages handled each day and 3,500 people in IT — size is seen as an opportunity, not a problem. For example, while the current vision in many IT circles is to regard megaprojects as too risky, Masada says his best projects pass in three to five years.

and cost hundreds of millions of dellars.

"Large projects deliver good returns on investments small projects dort,"

Masada says. "Large projects, by their nature, have more integration and are better thought-out. The investment dollars are large enough to make a difference, and there set a lot of focus."

ference, and they get a lot of focus."
Massda sasumed his post three years
ago, after the completion of a massive
integration of 'downstream' systems
(those dealling with refining, marketing
and transportation) for Chevron, Tesaco and Calbex, which merged in 2001.
A new global IT infrastructure,
called Global Information Link 2/Net
Ready, connected SQUOO deaknops and

Ready, connected 50,000 desktops and 1,800 company locations and was expected to save the company \$50 million annually by eliminating duplicate processes and systems. A spokeswoman says the project has returned a net

Continued on page 24

Large projects
deliver good returns
on investment; small
projects don't.

Where **SIZE** Is Opportunit



Challenge #2:

Turn a thousand versions of your numbers into one.

Solution:

The period — your management system for the global enterprise. It has do see the leight in the numbers when they can form a found afferent spreadures and dozen of business intelligence took. That's why the world's leading COs and COS team to hypothese, which hypothese dynamics and the second of the second of

FREE ARTICLE FROM HARVARD BUSINESS REVIEW How do other IT leaders deliver financial clarity and business intelligence? Discover new insights and best practices from the Herward Business Review and Hyperion.

Hyperion



SPECIAL REPORT

Part of the idea in information management is that you have a bigger and bigger havstack to find the needle in. - gaty MASADA TO CHANGES CORP.

Chevron Corn

Establishing Priorities

LOCATION: San Ramon Calif BUSINESS: Petroleum products 2005 REVENUE: \$193.6 billion 2005 FARMINGS: \$14.1 billion MARKET CAPITALIZATION \$339 Nillian as of Oct 12, 2006 EMPLOYEES: 59 000 IT EMPLOYEES: 3.500

and foully notes. My recent tour s and the steer Wales and

have the two to notify one and adults.

Moving to SharePoint will be a inturns stress before stort me and how people collaborate with one another of what roule walering 21 But data that senound each day. Parror the idea in information management." Ma salasas Sythanambase above rand

Investing In SIX SIGM

Bank of America's quality drive is paving off.

BY THOMAS HOFFMAN

decrees a service of the land Barbar el Desort was Hame Trace in technical ment ever nove at Bank aumsdands becau updane nous II

Jenelogical as close of the bank's con-The amountment is also the normal of minor efficient processes before

alternment with hospings, and except that I brees hank in terms of resets

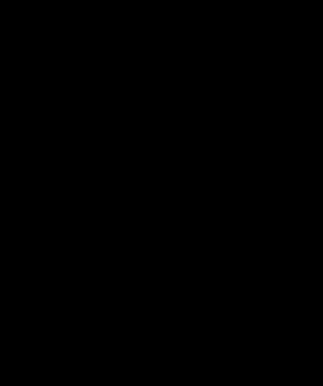
many Norwall was this melforent much a dath air for 11 statlers to rotate 29 year company veteran who has also had storts as the bank's too marketing and strains and as mesident of its North cost algornia banking group

Better Development

Deser assigned a ream leader to use Sex Surma techniques to a nexte a suitch That standard has been introduced to the consumer and small business bankase muts, and is being rolled our to Bank of America's capital markets and whole safe banking businesses, with its n, althoras recognitional investment

management groups to follow Descer is permissing that the stan Linkast methodolos will notice to classical time and help make derelovers and project team members more transferable across business

Lostomed on new In-



Chevron Corn

present value of about \$200 million over the past four years. "The object was to allow our workforce to do their work anytime, anywhere." Masads says. "That had finished up quite sucresentate and linked up this whole

corporation.

Indeed, the IT organization that Masada took over had earned a reputation for innovation, technical strength and the ability to execute huge projects, and if had proved it could deliver IT services to the course reliably and efficiently, he saws.

pany reliably and efficiently, he says-But top management wanted more. "I was asked to bring more of a business focus and a stronger alignment with the business," Masada says. "So I instituted Project Everest, which looked at providing the IT blaeprint and the investment road man for in-

rock an projects has under the zversest unsbrells, nos-bould they, Masada says. Nos-Everset projects are the thousands of smaller initiatives that may be important to one office or business unit but are not strategically important to the company as a whole. In fact, just 20% of the global downstream IT projects are on the Everset road map, although they account for 90% of all project speeding.

"They are the huge projects, and they are being very actively managed," Masada says. One Everest project, for example, dubbed Olympic, seeks to consolidate all of Chevron's ERP systems and standardize them on SAP.

Each of the projects under Everest has its own performance targets, including savings that are often in the hundreds of millions of dollars, in addition, Everses itself is expected to contribute \$150 million a year in savings and productivity increases. Massads says. "What Everest does it make sure that the IT investments go toward projects that earn the company the most money," he says.

soccessing intending an experior
cess means, among other things, using
Chevron's homegrown project management methodology, the Chevron
Project Development and Execution
Process. Room as CPDEP (pronounced "chip dip"), it includes five
phases, from "identify and assess opportunities" to "transfer and operact
is was developed for billion-dollarplan projects, such as deep-water conarrantion but has been adapted to ET.

Fetablishing Priorities

Establishing Priorities
In addition to reflecting Masada's
belief that the biggest projects have
the biggest project.
The biggest project have
the biggest project have
the biggest project.
The biggest project have
the

The contract of the contract o

works its way down. It starts with the business leaders."

Sekhar Venkat, an analyst at Energy neights, an DLC company says: Cherron's TI initiatives appear to be aimed at choiring ages that exist at some of the largest energy companiers disconnects among the scleentife and engineering systems and the people upstream in extraordior and productions.

the systems and people downstream

San Roman () 1 Potronar () 3 193 Pot

in refining, marketing and transportation; and corporate-level people who want to see everything that goes on. Chevron has recently begun work on its third Global Information Link project. GIL 1 standardized desktops, Japtops and operating systems GIL 2 built out the network and standard server infinatructure, providing con-

laptops and operating systems: GIL 2 built out the network and standard server infrastructure, providing connectivity to operations all ower the world, GIL 3 will focus on information management. If GIL 1 and GIL 2 gave users the infrastructure they needed to work with one another, GIL 3 will give them the tools to do so. For examiner, GIL 3 will use new

For example, GIL 3 will use new technology to tag information so it can be more easily found and shared it will also create new governance policies and strengthen auditing procedures to ensure that new IT standards are adhered to. That includes the adoption of IT Infrastructure Library, or ITIL, standards for manage

GIL 3 will employ Microsoft Corp.'s Visto operating system and its Share-Point product suite for communication and collaboration. SharePoint, which Microsoft says is intended to connect people, processes and systems, will facilitate collaboration among employees, partners and customers, Massda says, With it, employers will be able to create and manage their own. Web sites and make them

available anywhere at Chevron.

SharePoint will help us manage
projects and share information in real
time." Massada says. "We'll have a com
mon source of the truth, as we call it."

Standardization of platforms aljows Chevron to really give visibility
to operations, and it allows them to
get better brauines inselligence be-

cause it allows for a common view

one view of the state of things, as
opposed to everyone seeing things in
their own siles," Venkst says.

Moving to SharePoint will be a challenge. Masada says effective use of the suite will require a lot of training combined with big changes in user behavior, including how users tag information before storage and how people collaborate with one snorbur.

But it will help answer the question of what to do with that ZTB of data that's created each day. "Part of the idea in information management," Masads says, "is that you have a bigger and history horstack to find the needle in." 8

Investing In SIX SIGMA Bank of America's

quality drive is paying off.

WO YEARS AGO, when
Barbara J. Descer was
named global technologs, service and fulfilment executive at Bank
immediatedy began applying to its IT
and fulfillment percitices the Six Sigma
quality management expertises the had
develosed as chief of the bank* to and
develosed as chief of the bank* to and

developed as chief of the bank's consumer products group.

The investment is already paying off in more efficient processes, better alienment with business and even in-

creased sales.

Bank of America is the nation's third-largest bank in terms of assets, and its 17 organization had been applying multiple software development processes across its numerous businesses. Not only was this inefficient but the divergent approaches also made it difficult for IT satisfers to rotat among business units, says Desore, a 29-year company veteran who has also made in the processes are not provided to the processes and the processes are not provided to the processes are not provided to the processes and the provided to the provided to the processes are not provided to the provided to the processes are not provided to the processes are not provided to the pro

ern California banking group. Better Development

Desoer assigned a team leader to use Six Sigma techniques to create a single application development methodology. That standard has been introduced to the consumer and small-business banking units and is being rolled out to Benk of America's capital markets and wholesale banking businesses, with its wealth management and investment

management groups to follow.

Descer is optimistic that the standardized methodology will reduce development time and help make developers and project team members more transferable across business

Continued on page 26

DELL EMC



Whether you need fast hackup and complete protection or scalable and easy-to-manage storage consolidation for your enterprise. DellIEMC brings you solutions that are high on results - and simple to use That's because it's easier than ever to out promium software robust SAN Management Software storage, and world-class technical support to work solving your business's

 DellIFMC AX150 Storage Platform

 iSCSI or Fibre Channel Connectivity FMC® Navisohere®

• DelIIEMC CX3-20

Storage Platform EMC[®] Navisohere[®]

SAN Management Software ■ EMC SnapView[™]

and EMC Replication Manager SE Software

· EMC SAN Copy" Software

· FMC MirrorView" Software



■ FMC Centera™ Storage Platform

 Windows File System Archive Edition with FMC DiskXtender®

Software Governance Edition with EMC

EmailYtender® and EMC DiskXtender® Software

Ask about a professional file assess

tis to some a temperature electricistic

critical IT challenges

C: Disc. Recupion, Distribute, Emplique de Joseph de la primer de la companio de la companio de la Copyreira. Certes SM Cap. Minorities de Coupilles de trainine de DAC Copyreira. Certes SM Cap. Minorities de Coupilles de trainine de la Copyreira. Certes SM Cap. Minorities de Coupilles de la Copyreira Certes SM Cap. Minorities de Copyreira Certes SM Cap. Minorities de

SPECIAL REPORT

Driving Economies Of **SCALE** in IT

General Motors uses its IT buying

power to force vendor standards

DV DODEDT I MITCHELL

to a the common appropriate Harlabells to a majuric. See notice inclinate ment of

and the second second

in the little of the street of the beautiful to the street of the street 1. We read toward multisours me is at the feedback back creat has been After partner and managing dosester at UPLIN - montains me research and are advantaged in the action that a decided 4.35 and other comments the contract and the recent many to multiplinate the

to and tree ways. Allow "They wan't dedor that we are an experience. That moved be course or then rel manuface by recognitive

as the control of the montaneously by The incombent croyalet even possed the to a company during the process

one remain an absorbed afferred t was like all of constraint and the second of t were speaking different Account that is dead that the languages. the company's needs in 2003, after the British on an among course in both

DALDH SZYCENDA (10

Bank of America

and the second

BANK OF AMERICA LOCATION: Charlotte, N.C.

RUSHESS: Financial products REVENUE 2005- \$58.9 hillion CARNINGS SOOK, \$16 % NAMES MARKET CAPITALIZATION: \$246.7 billion, as of Oct. 9, 2006 EMPLOYEES: 202.000 IT PMPLOYEES: 33 000*

Edesate to TowerGross Inc. Needhorn Moss digitation of the partition of the same of trave of work "she says

to listen many of Bank of America's customated 13 0000 to breaking train of the are working alongside business of leavage an bankane comerce all corners in Lather bismoss muts, lead me for microscincil opportunities

Continued on nove 38

A prime example of this accurred does ever room ben the bank of I ers about the most important aspects of opening or order but keep a count the amount of time if takes to prest an continue account and the didn't be an

the number of screens if takes to open ordine banking term also developed more of design influency man tech names and introduced live text due to help to dilate new sales and provide improved customer support, acording

Horse types of improvements below

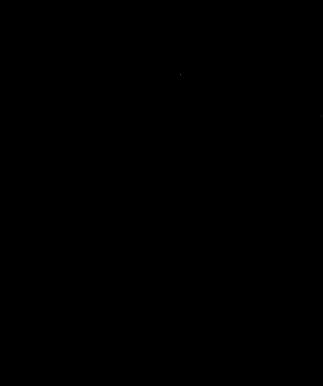
Black of America will be common in

April 2005 in Key mate Systems Inc. S. Customer Experience Rankings as one of the tan banks in other me unline cus name or not meladine traded to bee ors for easy of opening a new account

Duling banking has been a breasts constant Rends of America Dissert was Use bond a 1930 million and marginal contains ers tyrically apply for more known make more demonstrated on \$17 amore profits ers she explains The technology group has also sup-

cornel the bank's create cast in some rug customer service calls and online Extractions for try to land new customers. If a prospective customer as multi-must be ones a check mis account realing information that's catherol. about the person's credit history is minus I by a post hor waters are as a torm to

help generate a preapproved credit Continued on nave 26



Driving Economies Of **SCALE** in IT

General Motors uses its IT buying power to force vendor standards

BY ROBERT I MITCHELL

ANY COMPANI hnology and wess standards e metrine wendom to conform to those ds is no small feat — unless wee're Consered Motore Corp. With ElS billion in IT enemding on the table the Detroit automaker has plenty of

leverage to get what it waste from its ippuers. Farlier this year, the company concluded its monolithic 10 year outsourcing agreement with Electronic Data Systems Corn. broke up the work and surented the bulk of \$7 \$ hillion in new contracts to a small stroup of in new contracts to a small group of

also remainished to about a few same and transact

The changes at GM were driven by the meed for cost engines and emotor flexibility and the need to re-environment how the company operates IT clobally CM outcomes most of its IT operations and has about 2 000 amplement that bandle "strategic management of information technology" raw CIO and Communication Resident Robb Sourceds GM's reach toward multisourcine is at the leading adea of a trend save Peter Allen evertner and managing director at

TPI Inc. an outsourcing research and

consulting firm in Houston that advised

GM on both its original EDS contract and its recent move to multi-"CIOs are realizing that one service movider can't do it all" and that they need to actively manage service rel tionshins says Allen "They can't defer that to an external party. They need to he she interested of those continue and engineer that relationship between the business units and the service delivery

omeniastions GM's transition last June to its new service providers went emouthly The incumbent provider even assisted the new companies during the process.

That level of cooneration happened for one reason your Systemate "Tim still point to hid out \$7.5 hillion in the next

five years, and they want to win that. Severals first realized that the eviction IT strategy warn't meeting the company's needs in 2003, after its Brazilian e-commerce site. which

generates \$0,000 poline car sales an-Continued on page 28

Cancernini Covisint and Winto Ltd. It Continued from poor 24 Bank of America

units in coming years. That could be crucial if an exodus of retiring baby boomer technologists and a widely anticipated shortage of entry-level IT workers make it tougher for the bank to find and recruit people with the skills it needs. Desper says. "We are only to be increasingly challenged to find highly qualified technology associates

five to 10 years out," she adds. Jim Eckenrode, an analyst at Tower-Group Inc. in Needham, Mass., applands this effort. As financial institu tions modernize their IT portfolios, the need to attract people with cuttin edge technology and business skills will become more acute than ever, par-ticularly as banks find themselves competing for IT talent with "sexier" firms such as Google Inc., says Eckenrode. "Providing people with exposure to a lot of areas while keeping their skills

BANK OF AMERICA

fresh is a good strategy," be says. To help the bank's IT organization align more strategically with its busi nesses Desorr has challenged her IT staff to learn more about the bank's external customers and their needs. "The voice of the customer is what you start with when you embark on a Six Sigma piece of work," she says.

To listen, many of Bank of America's estimated 33,000 technology associates are working alongside business colleagues in banking centers, call centers and other business units, looking for improvement opportunities.

A prime example of this occurred about a year ago when the bank's IT and business associates asked custom ers about the most important aspects nine an online banking ac They found that they need to focus on the amount of time it takes to open an online account and the ability to authenticate users remotely

The IT and business staffers so olied Six Sigma techniques to reduce the number of screens it takes to open an online account from 10 to four The online banking team also developed improved desktop authentication tech-niques and introduced live text chat to help facilitate new sales and provide

improved customer support, according Those types of improvements beloed

...... Bank of America win recognition in April 2005 in Keynote Systems Inc.'s Customer Experience Pankings as one of the too banks in offering online customer service, including first-place bon-

ore for ease of exercise a new account Online banking has been a big success for Bank of America. Desper says The benk's 19.8 million online custs ers typically apply for more loans, make eits and are 30% more peofit shie to the bank than its other custom. ers, she explains.

The technology group has also sun norted the bank's credit card division and its approach of using a "50/50 mix" of snail-mail and sales pitches during customer service calls and online banking interactions to try to land new customers. If a prospective customer is applying to open a checking account online, information that's gathered about the person's credit history is mined by another software system to help generate a preapproved credit



Firewalls faster than the speed of business

Work together. Smarter. | Nokiaforbusiness.com/secu

NOKIA

SPECIAL REPORT

General Motors



man arms on the Manufact Linear way

the state of the s and the second second second second second

> That has eather committees A section of the constru Transferration of Logic Scarte

GENERAL MOTORS

OCATION Dates manufactures Auto-mondastance

PEYEMIF 2005 \$192 6 NIIIO MARKET CARITALIZATION #17 92 billion, as of Oct 9, 2006 THE OVER 227 000 IT CHELOWERS A DOO

and the section of the second test sky . A delegant community to the beautiful ers to make this harmon." she says "I Law think the sea show deal. The next and think this is a done as at the next

Lock mater the condens test til ottett tande more than the present of a resident At my fact the second back to be the conservery as lost to the total Alle to to the southern adentity manager to our meadow to work the LAI "We're and the same to be a common for his torobe

t.Al. locate can what one of these to see at 10 the factor that to our to one

Still Severala Hunks vendors should who we've treated of a

character than those comments were to Should be that these companies with derings strong the contract of the conto product is margarow asset, in sa to added a new Observation of the

mental and a second a second and a second and a second and a second and a second an OWN to both miskinges would whe We that the three state out the recommendation of Aurilandial Albandary SOUTH AND THE WHILE THE BASE A control in part of the last atomit in 2, 400, 424 Sential Games to present

Lands about the construct of the optimizer to a same but been mereral tultil systems nave for marginary. "Probt nonor to a work in progress. Right is to

dle Secondario Learners shows many with dispray a string the best party concluded on diffe transport to the party of the p of course and valided in mot a turing on the production of the true base of M most const with book at the total cost of a more one bediene the control of the interceptions and the second control of the second In come, new New condenses a shipping control to consider the murch we cont

We're building systems that optimize With a monance of 198 countries. CAS: Income to be allowed to the conduction in at

Chromomold for rose and roth removal the common "he says " Horis

Bank of America



The voice of the customer is what you start with when you embark on a Six Sigma piece of work.

a state of tentors the arms of the

Making Mergers Work es to the land of

of our shadow ecompleted list accomples extraord sivings for Bird.

RARRARA A DESCRIPTIONAL DESIGNATION NAMED AND THE REAL PROPERTY OF ANY REAL PROPERTY.

> In other menor tollow my, the H or constraint plans to combine the bank's forms of MBNA) one of Wilmington of America and appropriate Laborate Class. affort who levell take Emilton stati fronts to complete as expected to be to norm to SESE million in other has cost

officiencies in 2000, Design sits have in the technology group - to be is really innounable led in the timeneral services industry, it not mother indus-

Aldrands Lowert annu's Li kentisk Washing return also has a well housed on root interest than strategy. In and torrow-odb one Lyra Little reso that Bank of America has made ereal

Bank of Americas ability reconcilla choose which systems to keep and support innovation throughout the business Thas been a real sincing the tera number of other hrms," such as LP Morean Classe, which have stringled ene table toursler and CLD of the

Libb tapone or Westborn, Mass costnormal vales as a model. Design bemore to boost revenues in the bank's other bromesses. Non-she contains, "no treed to do that across all of our road ners, and that's a be opportunity to go atter 1



General Motors

mustly crashed Saysends immediately convened a meeting of the sendor in maked including Oracle Corp. ATACT torred, including oracle corp., reto Inc., Microsoft Corp., Cisco Systems these companies pointing fineres, and

cars and travels CM which produces about 8 million walling a most months ide has been moving toward a global operational model where any car for any market on he decimed and built con us occupate and built Isharation on a project may account among different design occur among dimerent design groups in different locations.

"Today if I have a computor problem. I'm taking down every design center in the world. I can't let that become That's what told me that this model most most surrous

Szywenda says. So GM has worked with its suppliers to develop 44 process standards. 29 of which affect suppliers. "It was like all of these companies were specking Aid. femont languages "Systemula says, New all vendors must conform to GM standards, which range from basic system requirements to processes for cystem medication relidation and project done IT processes that really aren't

innovation for GM or the IT company and make all that simple," he says.

CM TEO GENTING (10% ACTION 2 NO. whether for operational monitoring configuration management or security commission management or security doubt are a prin for GM and pureliers dards are a win for GM and su of annual state way in section, vessions and name anner for basic FT building blocks have depressed their own growth and held organization of the bost of the second erts in unneversary integration projects in unnecessary integration

ment is an innovative process? Give me - bank "Commels com But few other communi have the clear to hard were does to their will. "If I were punning a hillion dollar company. I might not have been

able to get these commonies to do that "Syperada admits. Nonetheless other com nice stand to sain from CMPs standardization outh by rid-

ion on its controlls some Larrie Scunfi en an anabut at Castner Inc. which CM among its alients The and start to see more industrialization of FT I shink or has (contomore) will benefit from it," because they will demand the same treatment she says "GM rives was the ball page to ask to do it But can GM succeed? "There is quite a his of work in defining and applying standards in a multisquered setting

CENERAL MOTORS

Scarding serves "It is enjoy to take a deliberate custoined focus by some ers to make this happen." she save "I don't think this is a done deal. The next

couple of years are going to be critical."

Severeda hopes his pash for standanis morivates wendors to start open ing up more but his primary arends is CM assessio For example he has used the company's clout to persuade Microssit and Sun to work through difformers to how their identity mens ment products work - for GM "We're

not traine to drive standards for the industry" Symunds rave TO be done to our what one of those providers does as long as GM can see what they need to see when they want to see it, in the format they want to see

it "save Scarding Still Systemate thinks wonders should standardize more to reduce integration headaches. "Are they doing enough to solve other people's issues? No. It

should be that these companies want to do this so that they can build innovative reachest and erow faster " he save GM still has a year to so to achieve in alphal vision. One area where arele to good Visit Out area Where SCI maar neped is with its car in

down to four instances morthwide TWO Aid not interests our SAD emi-"We did not integrate our SAP env Symmetric as well as we saward have. solidated 10 000 information systems down to 2,500. Szveroda wants to mask

that down to 1 000 for else optimize to that down to 1,000 or ease optimize to Although design and manufactu existent have been interested, fulfillment is a work in progress. "Right now, it's been notched together to run elohalby " Szyereda szys.

Loristics also remains a challens Cassian the heat ratios on high-consists nerts isn't enough. With the rising cost pures not t enough, with the rising cos of energy and a global manufacturing and distribution infrastructure. GM must constantly look at the total cost of a part including the cost of transporting to the destination where it will be used In some cases, Savenda sava, shipping costs can exceed the nurchase cost. "We're building systems that ontimize

business for that " he care With a presence in 128 countries. GM's biomest challenge is to solve what

Saveenda calls "the logistics piehtmare of elobalization." "If you could do it you could really

reinvent the company," he says, "That's what we're trying to do."

Continued from over 26 Rank of America

card offer before the charking account has even been opened, says Descer. Although other his banks have apolice! Six Siems and other quality management techniques to improve their IT operations, "other banks don't necessarily wed the technology and the processes together" like Bank of America has, says Eckenrode,

Not everything has gone smooth for the bank during Desocr's tenus In May 2005 hash officials confirmed that information on roughly 60,000 of its customers had been stolen by a New Jersey-based data-theft ring in what was then believed to have been the largest It'S banking security breach in history.

But Desper says no damage was done to the affected customers, and the experience wasn't all negative. It helped the bank focus on security strategies. including new online authentication

some Title Allen

The voice of the customer is

capabilities that her department has rolled out over the past year, enabling online customers to prove their idea ties from their computers instead of having to appear at the bank in person.

Making Memers Work

One of the key areas where Bank of America's IT organization has contributed to the bottom line has been through its systems integration work following its April 2004 acquisition of FleetBoston Financial Corp. The effort to consolidate systems between the two banks, which was completed last full belood contribute to \$1.85 billion. in pretax operational savings for Bank

What you start with when you embark on a Six Simma place of work. MARIANA A DESCER, GLOBAL TECHNOLOSY, SERVICE

of America, says Desper.

In other merger follow-ups, the IT organization plans to combine the bank's credit card portfolio onto the IT platforms of MRNA Corp. a Wilmingto Del.-based credit card issuer that Rank of America sequined in languary. This effort, which will take I million staff hours to complete, is expected to helo generate \$550 million in after-tax cost

efficiencies in 2007. Desper says. "This conversion capability that we have in the technology group - to be shie to do these conversions figwiessly - is really unparalleled in the financial services industry, if not in other industries as well " she hoosts.

Although TowerGroup's Eckenrode believes that Charlotte N.C. based Wachovia Corp. also "has a well-boned merger integration strategy," he and former colleague Larry Tabb agree that Book of America has made errent incords in this space.

Ronk of America's ability to quickly choose which evereme to keep and which to retire while continuing to support innovation throughout the business "has been a real arrement for them, much more so than [if has for] a number of other firms," such as I.P. Morgan Chase, which have struggled with their systems integration efforts, sava Tabb, founder and CEO of the

Tabb Group in Westboro, Mass With the success in helping to drive credit card sales as a model. Desper believes the IT organization can do even more to boost revenues in the bank's other businesses. Now, she explains, "we need to do that across all of our products, and that's a big opportunity to go

Security

McAfee



INNOVATIVE

Procter & Gamble uses creative approaches to read trends and bring products to market quickly.

RY THOMAS HOFFMAN

DEPOSITING FOR ANY PAC business operations seamleasty across \$6 countries would challenge any IT group, but at The Procter A Gamble Co., a company known for innovation, that's not mouth. Since the IT organization at the 169-year-old consumer products titan was melded into its shared services business in 2005, CIO and Global Services Officer Filippo Passerini

has challenged the IT team to live up to the company's regulation for creativity. "We exerted with the mind set of What can we create that's unique for the business?" says Passerini. As be unes it. PicG's IT organization should play a vital role in chaning the compa ny's future. But given P&G's size and score he doesn't expect "an overnight transformation*

For the past two years, he and other too IT executives have worked with business leaders from arrand the commany to identify market trends. enticipate business needs and create

programs globally. This includes boning PfeG's business intelligence (BI) to belt the company's consumer-focused businesses better anticipate market shifts, "What happened a week or a month are lin the

market] is no good," says Passerini. "We have to predict what is coming. PScG is also investing in analytical software and predictive modeling tools to help its business leaders better understand the markets it serves.

needs, but the technologies also need veloning a working marriage of these rus critical demands * caus Passerini

Doueles Christopher, an analyst at Los Appeles-based brokerage Crowell Woodon & Co. says RI and production adaling tools have belond PSC iden. tify and react to market shifts more quickly though he says it's difficult to musetify how much their use has contelbuted to its businesses

Speeding to Market Due DI is just one element of the IT

organization's speed-to-market strateev. PfeG's IT group is also using homegrown and commercial software to help the company obtain and incorpoeste customer feedback and launch new products more quickly.

In the past, P&G created physical mock-ups of new products and showed them to customer focus grouns early in the development cycle. Particleants provided feedback on packaging pric-

ing and competitive products. Then the product team modified the products and retested with consumers — a procout that could take many weeks. IT has shortened this cycle using a

dirital workflow system that creates "a virtual mock-up," says Passerini. "If

The Procter & Gamble Co.

ers eine von feedback, von can change (the product) on the five service marks of development time

PROC's IT seem began developing those canabilities just over a wear senand has since applied the virtual anand has since applied the virtual apincluding paper towels and porute chies. The concept has already delivend "his reductions" in development ered "big reductions" in development PAG's new products, says Passerini.

Underlying Standards PAG's IT team has been able to focus

on business innovation because Pasto be about an exercise. That includes integrating IT into PMCV elobal chand-corrient business and con dating support for all global business activities onto a single instance of SAP AC's EPP software.

"By standardising IT operation around the world, you scale for cost. Sevibility and case of use " he says. "We've covered a model that allows us to operate efficient, low-cost service

The efficiency model includes a 10-year, \$3 billion FT outsourcing deal with Hewlett-Packard Co, that was eigned in 2001 Under this personnel and later amendments. HP runs P&G's elobal IT infrastructure including data center operations, desktops, perworks. and some application development and maintenance. About 1.850 PMG FT workers became HP employees under the original contract. e original contract.

Passevini says that shifting support

to UP makes P&G's massive IT cost structure considerably more flexible. "If you can buy services like a utility. then clearly was can flex up and down as you need to," he says, "This is were very different than if you were bound by a fixed cost structure." It also frees up the remaining FT staffers to focus on innovation and value creation. he save

The IT innovation continues. Currently. Posserini is overseeine a "culturnl resolution" within IT to ensure that the group is enmeshed in PfeG's business fabric. It includes new train ing and career development to provide IT staffess with the skills necessary to "blend" IT with P&G's businesses. he save

"We need to move to more of a culture of agility and responsiveness." says Passerini "It's not about working harder, but how do we operate in a dif ferent way so that we can be more agile toward meeting emerging business needs " 9

Tapping Employee BRAINPOWER

IBM uses IT to solicit and test employee ideas.

BY GARY ANTHES

10% COMMONEY report to the chief financial officer or the CSD. But at 18M, Brian Trus-kowski reports to the senior vice president for internal business transformation. Truskowski says that's because management believes I'll has unique insight into the internal workings of the giant commany. But he concedes that he ents

company, sur ne concess trans are great a tot of help from his firends — 329,000 other IBM employees. Many companies do "business transformation," of course, but at the mother of all technology companies (IBM was making mechanical computing rus-thines in 1011, the concept has special importance. For decades, IBM bestrode the world of IT like a colosius, but it lost its beginning in the 1960s and early 1900s in the face of the rise of his firm of his firm of his many firm of the rise of his most of his mos

Corp. and other competitive forces.
Recognizing that the company had to confront 21st century market realities, 1804 Chairman, President and CEO Sam Palmanson decided in 2003 that it was time to update the "basic beliefs" set forth in 1914 by 1804's first president, Thomas Watson St. Using mirraner-based collaboration technology, 1804 polled its employees for their disease, not 5000 personates and —

IBM
A LEAN NY
LETTONING 1, 1
20 (a)
27 ALIEN 1, 10 (b)
(29 600)

assisted by IT — distilled those into just three corporate values.

A sharp focus on those values has

A starp tocols on tasses values aux belped IBM regain its footing. Truslowski says. Last year, the company's 591 billion in revenue put it 10th on Fortune's list of the 500 largest U.S. companies.

Mind the Gaps

BMM new values, which include purting client needs first and footering innovation, may seem obvious, but Trustowski says the participatory, grass-roots means by which they were developed gives them credibility with employees — something they would have lacked if they'd been developed by "a senior executive sitting in Armonk." Armed with the freshly minned.

Armed with the treastly minrou corporate values, senior management charged business unit managers to find and cloice the gaps between those values and acrusal business practices. To help with that, IT rolled ont in October 2004 a so-called Jam — a workdwide brainstorming session that Truskowski describes as "a blog on seroids." It drew ideas from 33,000 employees, and IBM layer incollement of the not S usucentions

and entermined to the top of suggested and electrimized by an employee vote.

"A very obvious problem was our lack of integration in front of the customer." Truskowski says of one of the gape identified in the jam. Indeed, the second-highest-rated idea from the jam was to overhand the way 18th sets prices for deals that include combinations of hardware, software and services.

Previously, every brand had its own profit objectives and pricing policies. *O' course, that it cargs, because it's our ability to solve a problem — as opposed to selfing piece parts — that makes us special. Truskowski says, So the company created what it calls its deal bub, a one-stop shop for sales teams working on blus that draw on offerings from multiple fills brands and business lines. The hub thelos sales

teams worldwide come up with competitive bids faster, he says.

The top-rated idea from the 2004 jam was a program in which employees a anonymously rate their boases. About 8% of eligible managers got feedback reports last year. Another idea, to simplify password use and administration, resulted in a single-sign- on plan that's now being pitot-tested.

Jams are just one of the sools that
IBM, enabled by its internal IT group,
developed so it can avoid the stageation that led to its strambles in the 1900s
and 1900s. The tools are intended to
tap into the company's buge store of
knowledge, whether it's in a client
database in Armond, in the mind of a
software engineer in India or on the

delixing of an accommant in England.

IBM has employees in 74 Countries and thousands of them have innovative ideas. Truskowki says. So its lanes jam sought ideas on new markets, technologies and products, and for the first time, it was opened up to IBM clients and employees' families. It generated 37,000 ideas from 140,000 people in 75

countries and 67 companies.

That was quite far for the IT infrastructure, says Trushowski.
noting that 3000 jammers were logged on at one time on the first day. "I haven't seen much else that can handle this scale," he says.

"From a CIO's perspective, it's 72 hours of hell." He says several 18M clients have saked for the technology to a state of first the technology to de-

IBM is providing it.
Another tool for harvesting ideas in the Technology
Adoption Program, or TAP,
an initiative aimed at the
company's new gool of fontering innovation. "When
I nook this jeb 20 months
ago, I had a jot of passionate
IBMers sell me whi great
ideas they had about things
we should he doing limitie,"
Trushowski says. The result
was TAP, an intranar system

based on WebSphere and the LAMPStack suite of open-source tools. Employees known as early adopters use an intranetbased testbed to try new tools and technologies that have been pouted by employee "innovators" around the world. There are now 1,000 innovators and

36,000 early adopters using the system. "We pick off the best ideas for internal pilots, and eventually some end up in our products," Truskowski says. For example, some enhancements in the current release of IBMV Sametime instant messaging product — such as

For example, some enhancements in the current release of IBMN Sametime instant messaging product — such as emoticons, broadcast capability and a link into voice over IP — originated with internal users who had developed those features on an ad bec basis. The imming and TAP initiatives are

naturals for IBM, says Eileen Strider, a Kansas City, Mo-based consultant in an IT organization. "IBM has a very rich history around their values." she says. "I don't know of other companies doing this as aggressively as they are.

company, the employees are attracted to 'blogs on steroids' kinds of ideas." Strider calls it 'n good thing' that IT falls under internal business transformation in IBM's corporate structure. "The people in IT sort of know how all the pieces fit together, and they see where the issues are and where the dis-

Appropriate IT

leage is "supporting the hypergrowth markets in emerging countries." For example, IBM has 43,000 employees in India, second only to the number of employees it has in the U.S. "Understanding the constants changing business."

pioyees it has in the U.S.

"Understanding the constantly changing business models in those countries in critical," he says.

He's experimenting with a new model in which all employees are not treated equally. In the post, he says, all employees got fully loaded ThinkPads. "Now

we are delivering just the right capabilities for your role — just enough IT to get your job done," he says. "That simplifies people's lives (and) my life, reduces costs and better supports those emerging hastings.

models."
Paying close attention to
the IT needs of individual
employees has become
increasingly important,
because more than half of
all IBM workers have been
with the company fewer

than five years and 45% do not report to a traditional office every day. "Employces used to say IBM stood for "tve been moved." says Truskowski. "Now I hear it means 'Inn by myself." One of his challenges is ensuring that all employees have access to the resources they

need and are "connected," even if it's just virtually, he says. Asked what advice he'd offer his successor, Truskowski says, "Be ready

successor, Truskowski says, "Be ready to get a tot of suggestions. There are a lot of IT experts at 1804, and probably half of them think they can do the job better than I can. And probably half of those are riche." 9 **INNOVATIVE** Procter & Gamble uses creative approaches to read trends and

bring products to market quickly.

BY THOMAS HOFFMAN

business operations seem rough but it The Property s. Comblet a comp enough Since the H urganization at the letter our old community results to man was melded into its shared core was business in 2005 CIO and Global Services Other Filipps Passerini

has challeneed the IT team to live up to the community reputation for executivity

'We started with the mind-or of What can we create that's unique for the business?" was Program As he sees it. PSG's IT organization should play a vital role in shuring the compano's future But viscon Picta's size and course he has n't in next "in incremable

For the nost two years, he and other top IT executives have worked with has one a bout on from mound the commons to identify market trends. into instellarings mode and excite

programs globalls This includes bearing PSCCs business intelligence (BI) to be in the currer on 's consumer focused businesses better automate market shifts. What have mental award or amouth and fin the

purfectly no good," says Passerini We have to product what is coming PSA is abusinessine in analytical oftware and predictive modeling tools to belts its husiness leaders better undenoted the markets it serves

■ We started with the mindeet of What can we create that's unique for the business?

FILIPPO PASSERINI, CIO

The assessment could remodily store The company vacane companies liner highly contomized artistic and data minimum toods manufate compared 100 product brands, each with mission a vaccinhic and competitive merket geographic and competitive market to be stonder found "One tooms one do soloning a working marriage of these two critical domands," was Proceeding

Donales Christopher on analyst at Los Appeles-based brokerner Crowell Womlon & Co. wars Bl and productive my Jeline truly hose belond 1966 iden of the state of th anickly through he was it's difficult to mantify how much their use has contechnical to be beginning

Speeding to Market But III is just one element of the TT

per ne is just one excisent or the 11 our Bioth IT aroun is also mine homorown and commercial software to bein the company obtain and incornegate contourer foodback and bunch new products more quickly.

In the nast, PSG created physical manifesters of new products and showed them to customer focus groups early in the development cools. Participants mountainst finally ask on mark prime mains ine and competitive products. Then the

enaduct team modified the enaducts and natural with consumers - a proare that ambitable man made TT be a beautiful to the control of digital work those system that exertes 'a virtual mock-up," says Paswrini "1f

The Procter & Gamble Co.

LOCATION Cincinnate BUSINESS Consumer goods REVENUE 2006 \$68.22 billion. as of June 30, 2006 FARNINGS 2006 SR 68 billion as of June 30, 2006

MARKET CAPITALIZATION \$199 55 belton, as of Oct. 9, 2005 EMPLOYEES 140,000 IT EMPLOYEES 2.300

consumers eine you fordback won can channel the product on the fle " coning change (the product) on the recks of development time. those carehilities just over a year area on I have since applied the pirtual anand the section are possible of anothers prosen so testing versions of produ white. The concept has already delise chips. The concept has already delivcosts and time to market for come of Dr. Ch new products was Presented

Underlying Standards PACES IT from less been able to form on business innovation became Page

contributed to the standard work of the technology operation. That includes integrating IT into PSG's olded a beauty aminor business and correcti Arting support for all plobal business activities onto a single instance of CAD ACT EDB coference

of the standard being IT assessment annual the world was scale for cost fleethiffing and energy of more the energy The country and come of the time of the come and the second second continu The efficiency model includes a

the efficiency moder includes a with Manhot-Dackord Co. that year simulation 2007 Haday this agreement and later amondments. HP runs, PSC's ababal IT infrastructure including data center operations, desktops, networks, and some application development and watercourse. About 1 850 Pec IT workers became HP employees under the original contract Dunarini was that shifting support

to HP makes P&G's massive IT cost structure considerably more flexible. "If you can buy services like a utility then clearly you can flex up and down as you need to "he says. "This is yers. york different than if you were bound hy a fixed cost structure." It also frees up the remaining IT staffers to focus on inspectation and value execution

The IT innovation continues, Curworth: Descript is proposing a butturned non-decision" within LT to encore that the group is enmeshed in PSG's business fabric It includes new train ine and expect development to provide FF and on with the bills meanware to "blend" I'll with 1966's businesses

"We need to move to more of a culture of reility and responsiveness." says Passerini. "It's not about working hander, but how do we operate in a different way on that we can be more wile toward meeting emerging business needs."

Tapping Employee BRÁINPOWFR

IRM uses IT to solicit and test employee ideas.

BY GARY ANTHES

to the chief figure isl officer or the CEO Bot of 18M Brian Terr house i concert to the now ski teports to the for internal business transformation Therebearship are that's because more

NA COMMONIA WINNET

successed holicons IT has unknow incide into the internal workings of the stigst s lot of help from his friends - 170 nm orbox 19M omplowers Many companies do "business trans-

formation " of course but at the mother of all technology companies (IBM was making mechanical computing machines in 1911) the concept has special importance for decades 18M bestrade the world of FT like a colossus but it lost its hovemony in the 1980s and early 1990s in the face of the rise of Microsoft Corp. and other competitive forces Recognizing that the company had

to confront 21st century market realities, IBM Chairman, President and CFO Sam Palmisano decided in 2003 that it was time to undate the "basic hading?" our fourth in 1984 ha 1984's forest president Thomas Watson Sr. Using incomes bound collaboration technolney. IBM polled its employees for their ideas out 90,000 responses and -

IRM

LINEATION Armanic N.V. BUSINESS Technology systems REVENUE 2005 5911 billion CARNONIOS 2005 SR billion

\$127.83 billion, as of Oct 9, 2005 EMPLOYEES 329,000 IT EMPLOYEES 2 500

and a chief for the state of the same laws. inst three correctes values in timee corporate value of

belood IBM regain its footper Treekonski eva Lucturer the company's got billion in revenue put it toth on Contours's lies of the O'ld Innest I'l S. companies

Mind the Gans IRM's new values, which include nut

tion client pands host and forceing incommiss management obvious but Touch may stem territories process makes by which they were Annalysis of since them and thillies with employees - something they would have lacked if they'd been developed by To coming exposurity picting in Armonic Acres devices the few left mineral correction values, senior manuscrares

chanced business unit manuage to find and close the wars between those valnor and actual business practices. To hele with their PT redbel out in October 2004 a sa-called iam — a worldwide besimmersing washing that Trackworth Acceptage of the property of the property of the contract of t ideas from 33,000 employees, and IBM later implemented the ton 35 suggestions as determined by an employee water "A very obvious problem was our

lack of integration in front of the customer." Truskowski says of one of the rans identified in the iam. Indeed the second barbest rated idea from the iam war to coorbant the way 18M sets price es for deals that include combinations of bandware software and services Democratly more brand had its own profit objectives and pricing policies.

*Of course that's crazy, because it's our ability to solve a problem - as opposed to selling piece parts - that makes us special." Truskowski sava. So the company created what it calls its deal hub, a one-stop shop for sales teams working on hids that draw on offerings from multiple IBM brands and business lines. The hub helps sales

teams worldwide come up with competitive hide factor he save The top-rated idea from the 2004 iam was a program in which employees can arous mously rate their bosses. About 8Pu of eligible managers got feedback reports last year. Another idea, to sim plify password use and administration. resulted in a single-sign-on plan that's

non being niletanent Time and last one of the tools that Jams are just one of the tools that developed to it can would be come tion that led to its stambles in the 1990s from that led to its stumbles in the Pa tan anto the commune's have stone of knowle-less selection of a in a classic knowledge, whether it is in a citem software engineer in India or on the Aukton of an acquistant in England

1914 has appelled on in 74 countries iden. Trudowski save So its latest iam cought ideas on new markets such entonin and perdom and for the first time it was opened up to IBM clients and ampleases' families it concerns. 27 000 ideas from 140 000 percent in 75 ACT COMPANY

steacture care Truckmerki and tale, says from more were loosed on at one time on the first day. "I haven't control and day. I started h undle this scale "he says Enom a CWVs personation ist 23 house of hell? He care several IRM clients have several time citeties have conduct their own jages and

IRM is nowiding in

ing ideas is the Technology Adoption Program of TAP. Adoption s rogram, or 17 company's new goal of festering innovation. "When I soul this inh 20 months see I had a lot of page over IBMers tell me what eneat ideas they had about things we should be doing inside." Touch much near The name

based on WebSphers and the I AMPStack spite of onen-source trads Employees known as early adopters use an intranetbused resthed to try new tools and technologies that have been posted by em-

ployee "innovators" around the world. There are now LOOO innovators and to 000 early adopters using the system We pick off the best ideas for internal rolots, and eventually some end up in our products "Trushweski says For example, some enhancements in

the current release of IBM's Sametime instant messaging product - such as emoticons, broadcast capability and a link into voice over IP - originated with internal users who had developed those features on an ad hoc basis. The jamming and TAP initiatives are

naturale set their says rincer whose on an IT one increasion. TBM has a term in an 11 organization. TisM has a vercommonest around their varies. She faire this as assessment or the or the A p Laince that 1934 is a tachnolous company the employees are structed

company, the conjunyees are attract tree has will be "a mount things" that I I follows be estimated business that but - - - - - in IRAEs corporate at partiate. The people in IT cort at least 1 all the proper to recently and then one where the somes are and where the diswhere the issues are an

James to Scannerting the by personwith

Anoropristo IT Trunkowski eres his husanst chal-

example 18M has \$1000 amplesses in Index second only to the number of our ployees at has in the 11% *Hodorstanding the con--Understanding the conmarket in the secondaries is certified " by con-Mark our primontone is ith a new model in which all employees up that the field anually in the most become all employees out fully

loaded Think Pade, "New not any deligering just the whole conshillring for your role - instemant IT to and some job done " be come "That simplifies people's There found may hide made one costs and better supports. there among the house he Program close attention to

the IT mosts of individual increasingly important has seen more than half of all IRM workers have been with the company fewer

than five years and 45% do not report to a traditional office every day, "Employover most to say IRM stood for 'Dee been moved." says Truskowski, "Now I hear it means I'm by myself." One of his challenges, is ensuring that all employ ees have access to the resources they need and are "connected," even if it's

Asked what advice he'd offer his successor. Truskowski says, "Be reads to get a lot of suggestions. There are a

lot of IT experts at IBM, and probably half of them think they can do the job better than I can. And probably half of those are right ".





STANDARD. Not Sexv

Common systems are the rule at ConocoPhillips.

ACOUNT IS the state.

One polynilips. In the past 20 mouths alone, the energy behenoth has employed by the polynilips. In the past 20 mouths burded on a 54 billion burded on a 54 billion polynilips program to expand in U.S. refning operations acquired Burlingson Resources, a major U.S. gas explorer and the polynilips of the polynilips. The polynilips of the polynilips o

and marketers; and issunched a large liquefied natural gas project that supplies natural gas from Qatar to the U.S. And that all comes on the beels of a framework dist of acquisitions and mere-

nve-year user or acquisitions and mergers, beginning with Phillips Petroleum Co.'s 2001 acquisition of Tosco Corp., one of the world's largest oil refiners. Today — and going forward — the main challenge for IT at Conoco-Phillips is building and operating a signation was translated to the building.

poposite, yet samanetizet technology infrastructure that can integrate these and other new acquisitions and business projects quickly and cost-effectively. "It's not real sery," acknowledges Marty Schoenshaler, general manager of information services at the \$850 billion company. "But scale is what is so key in our industry. For almost four wars. integration and converging systems."
The ultimate goal, he says, is to create a technology foundation that can be used worldwide to support a comprehensive

Global Standards

The ticket is standardization — make that typerstandardization. Today, all of Coscool-Philips russ on a single instance of SAP enterpties software. The company has also standardized on Dell hardware and Microsoft Office software and roots? That's a long way from the dozent of difference e-mail and decking systems that extinct due to the decking systems that extends the decking systems are decking systems.

"As we go through acquisitions and otherwise grow as a company, it makes it that much easier to build off that foundation," Schoenhaler notes. "When we acquired Burlington earlier this year, we were able to drop it right into our (schoal SAP) system."

unto our Iglobal SAP] system."
ConconPhillips in in the process
of further standardization, this time
focusing on the creation and adoption
of global business processes. A receat
success story is the ASAP (for "aligning
systems and processes") program in
the company's European downstream
business, which deals with the refining, marketing, and transportation of
resolutes. The more are processes.



15 it's not real sexy, but scale is what is so key in our industry.

CAN YOU HANDLE ALL THE DATA THAT'S COMING YOUR WAY?

Introducing middwage storage with high- and functionality. We know what you've up against, and it's a lot. An explanation of data, a complex infrastructure and limited ensures. Our new middings medular storage solutions help you tooke there issues and more three controllers extuntions the Network Stora

business units in 15 coverries

The whole sure of the sure "The whose purpose of the program ness processes and their supporting IT ness processes and their supporting 11 systems (as possible) across all of the explains "We want an efficient low-

or operating environment."

It worked. The Furnnean downstream business's retail marketing

stream duaness's retail marketing group went from 14 standard process and location to 20 processes in all Those processes are supported by 22

*Now we have common processes in place for light oil pricing and retail site surveys, plus standard information interfaces for [all] sales." Schoenthaler ance "What that all means is we have much hester management of all of our

stock categories. We can get a much better elobal idea of the business, and CONOCOPHILLIPS

means relatively easy access to offshore IT skills, IT at ConocoPhillips is strictly on in-house organization. The company employs 1600 permanent IT staffers and 400 contractors. About half of the nermoney staffers are devoted to cent ized or "leveraged." IT services, such as "We're trying to separate out as much leveraged service delivery less we can because we fully charge out all of those costs " Schoenthaler explains

of those costs," Schoenthaier explain Chareebacks also help boost aware-Chargebacks also help boost aware-ness of costs and help build support in the business units for slobal processes he adds Momentheless these persons some very specific servicer such as geodata management, that have to be But seen in those sees. Conson.

Philling is driving standardization by adopting common software trols that proscientists anywhere can use

Challenges Remain
The downside of ConocoPhillips' postmerger size is that "not every one of our processes scales to the level we need it to." Schoenthaler says. Geodata management is still handled in a decentralized way with individual business units

ment processes aren't consistent

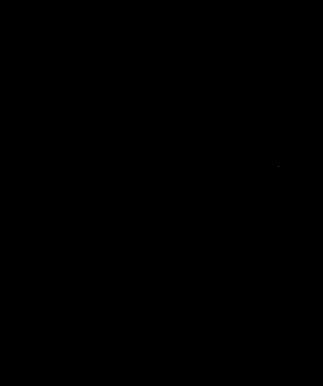
Connen has also faced a major chal-Conoco has also faced a major chal-lenge fording both FT and business perfeetings with the mix of skills it needs lessonals with the mix of skills it needs ness people especially — to do revisers

We'd be doing a lot more projects if we we'd be doing a sot more projects if we He dealines to simo one specific shout ConocoPhillins' current FT hank and amount to any that it "was brought get, except to say that it "was brought

Conoco and Phillins But considering that ConocoPhillips made \$5 billion in profit last quarter. "no matter what they're spending on IT, it's a rounding error comparatively," savs Fadel Gheit, an analyst at Occur-

heimer & Co. in New York The same goes for all the big oil have no control over pricing Only the market does. So they need every tool in the toolbox to constant efficiently. Then





becomes constant to 15 constants "The whole purpose of the program to be a more paint page of the program man may make and their commentum II ne a broce or a superior and bourner as A secure parents of a few arts of a ranopean rusinesses, scinemianer

and about these one or constituted the experience continuent annun mant fram I Laten Lat London and and the main beat and process with 42 Call Character Construction and all These property on appropriate the 27 I have been been been be

Now we have common processes. on of any for liabs oil pressure and not all estatura are also et al la Lastana di a untertaces for Lill sales." Schoenthaler and "What that all means is well and was believed in a supposed of all of our machine and a second and a second assessment better elabilister of the business, and the common oracle of the rustiness, and has in a control and the control Despite its which it presence which

CONOCOPHILLIPS

.......

DUCINESS. Dateslaum products REVENUE SAME, \$100 Life-FARRINGS 2005 S13 billion MARKET CAPITALIZATION: CHO! WCC0. 25 600 THE OWER A GOOD

me un relatively case scores to utfabor. II skills II at Consecutifulling is strictly amola a 1000 permanent I statters and JUL court wars. About half of the nermanuscript of the control of the per-Joshian suprart data contention areas and major enterprise application is relorment and support services. The other half are a business many worldwale

Widnester and too on or or our make a section of the section of minen reveraged service activery (as at those costs " he hourth dor on those A beautiful of the balance of the be all Normaledon the service ne and severmenes, mere remain port arms I at inches he d by stone

Training at mark man and and and But even in mose mere's concer-About many common contraction of the start

Challenges Remain the harms beat to one official and mercer size is that that every one of our processors to the factor of a creat of and the second of the second o rand was with individual business must processor than our of the Apple than development processes also don't scale well be easy adding Thursdevelop-

do not consultations', arrow II but

and an early to early that at an archemistra Company and Phallers But a mathematik at the annual fallons

11 at a roundou orner common and and both of their an early at the second There are come for all the buryol The same poes for all the rig on

have not control over true into Only the market days Sorther most every tool in the teadbox to cover in othe conti. Then reasons being the lowest cost growinger. which to more the best interestion.



Exxon Mobil's

standards translate into agility for its global business units.

I your Mobile orp., you'd his a press fact in the press fact in th

It is a Marco III is desirable to room and is a consequence of the desirable consequence of the desirable consequence of the consequence of the desirable consequence of the desirable consequence of the consequence of the desirable consequence of th

The results of standard computing apple attorisms of an oscial withere in the world. The white says I are com-I can Mobile used the anticase to make a current an approximation in Russia

EXXON MOBIL CORP.

LOCATION: Irving, Texas BUSINESS: Petroleum products REVENUE 2005: \$370.68 billion EARNINOS 2005: \$36.13 billion MARKET CAPITALIZATION \$385.63 billion, as of Oct. 9, 2006

EMPLOYEES: 84,000 IT EMPLOYEES: 5,500

SPECIAL REPORT

Focus on **FLEXIBILITY**

That commitment to standardization played a critical role during Exon's merger with Mobil, allowing the combined companies to reduce stating by about 15 000. Some of that orial/fir have happened it we hadn't standard need the LL same? Hendett says

FRP Effort

The corporation's most ambitions recent project has been us tenacious proson of a common global I Bepthform for its chemical business. That mutatures chemical business. That mutabusiness mut speciations onto a singleinglementation of SAP software, was able to overcome substantial facilities.

 bardles and integration complex its through a "brate force effort" that involved harminering own intil it so ecceled, says Dan Mikloric, a Garrier fire, analyst. The result is one of the world's largest SAP implementations. "They be doing a good prof of standard term on a large climit of SAP Other comprises are not doing that well."

"It helped improve the quality and timeliness of data, and we've gotten even greater benefits than forecast."

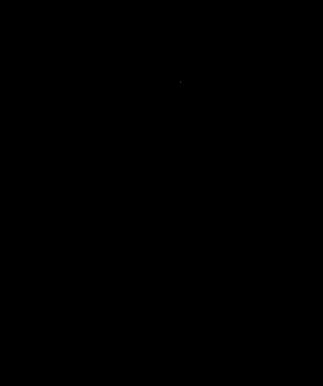
Hendert says.

But the more absorrepresented a trade-off "By pushing so much SAP.

Excur Mobil, page 80

Making the trade-offs on when it is appropriate to make an exception to the standard – and why – is a challenge.

PATRICIA C. HEWLETT, VICE PRESIDENT OF GLOBAL INFORMATION TECHNOLOGY, EXXIDENTIFY TO THE PRESIDENT PROTOCOLOGY



Exxon Mobil's

standards translate into agility for its global business units BY ROBERT L. MITCHELL

on Farmer Mahil Com which has a necessore in dardination are the keys to success. "We already ceitical anables to that " uses Patricia C Hambet vise asseidant of alphal

Forms Makilly FT officers differ from those of its commetitors in the extent to which it focuses on standardization and achieving economies of scale according to Hewlett That focus allows the company to do more with less and

That strategy has clearly benefited the Irving Texas-based company's unstream business unit which focuses on oil evolution extraction and transportation. Hewlett says. A common platform dubbed the "unstream suitcase," integrates everything Exxon Mobil needs to move into a new market including the FRP system and tools that monitor equipment, track personnel and manage work permits.

"It's a suite of standard computing dications we can use amorbere in the world " Members once I see wear From Mobile used the suitcase to oulckly set up new operations in Russia

EXXON MOBIL CORP.



hurdles and integration complexities through a "brute-force effort" that involved hammering away until it suc ceeded, says Dan Miklovic, a Gartner Inc. analyst. The result is one of the world's largest SAP implementations.
"They're doing a good job of standard-izing on a large chunk of SAP. Other companies are not doing that well." Miklovic says

"It helped improve the quality and timeliness of data, and we've cotten even greater benefits than forecast," Hewlett says.

But the move also represented a trade-off. "By pushing so much SAP, Exnon Mobil, page 36

200 countries, technology

and business process stan have developed a suite of systems that nave or veroped a sum or systems that deploy best practices. Technology is a information technology at Evens Mo. hil which is the world's largest energy

be more seile when responding to changing business needs she says

and Annals

FLEXIBILITY

That commitment to standardization

played a critical role during Exxon's

merger with Mobil, allowing the com-

bined companies to reduce staffing by

have happened if we hadn't standard-

about 15 000. "Some of that couldn't

business users think answers should be ONE CLICK away. so do we.





Pfizer needs to support product innovation while cutting costs.

BY JUIL IA KING

Lines In his billioned from

Lie ongoing challenge for the plancents also on is streambring opera-

numble and innovative in an industry when companies has and die by the discoveries they make and the nateries At the same time. Placer is under

pressure to keep a lider costs. In the just incidents, the company has lost ibon \$140 billion in value while pursu me as enough strategy. Also, in hone, the patent expired on one of its top selling drugs, the antidepressint

We need to consistency and standardization to operate effectively, while still fostering innovation

THE REPORT OF THE PROPERTY OF THE PARTY. WITA CASSESE, WILL PRESIDENT OF BUIGNESS TECHNIN ORN PRIZER INC

Aston who be contributed to the ex-\$3 billion to Phyer's top line in 2004 to contabell to other recovering directs older drines come off patent and new ones, the developed Physic books to know a man along to this beginning could recognize the state of the same and not - to the state of the state of

Lor 11 or all adds un to strikme a halaman and Vital manus vacciones. There are transcripting challenges show plants "We monk to draw a lead of consistency and standardise monto operate effects of while still lesterne

Moreover, Cassess satisfile so the and complexity of Phoer's business make tor a house do create and enhance manual nords a raise the contrain. "In many n n a st demands deflerent sternardes to Lit a Lore and and unformation in inagement," she says "I hat makes for very big shalleness because we also mand to demandow in the control of more reme this information

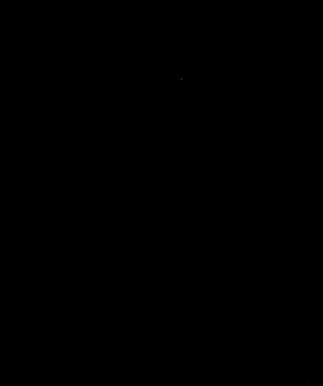
Course Correction

In not there. Placer has a two-proposal El strategy It has centralized enter prise I I Telumbura" seri a ca such as Jana center, networking, help desk and infrastructure support operations. into a corner to all malagrance on a magazina Bora shahar salbacated II employees with business people at tuss cere die all at recover more mount Phoen page 49

PEIZER INC

LOCATION: New York BUSINESS: Pharmaceuticals REVENUE 2005: \$51.3 billion FARNINGS 2005 SR hillion

MARKET CAPITALIZATION: \$201.6 billion, as of Oct. 9, 2006 EMPLOYEES: 106,000 IT EMPLOYEES: Not available





Pfizer needs to support product innovation while cutting costs.

BY JULIA KING

N THE past dozen years,
Pfizer Inc. has ballooned from
a \$4 billion operation to a
\$50 billion company of staggering complexity, thanks to largely stock-for-stock acquisitions
other companies, including Warnes
mbert Co. and Pharmacia Corp.

by stock-for-stock acquisitions of other companies, including Warner-Lambert Co. and Pharmacia Corp. The cogoing challenge for the pharmaceutical giant is streamlining operations, processes and technology to stay

nimble and innovative in an industry where companies live and die by the discoveries they make and the patents they hold.

At the same time, Pfizer is under

At the same time, Pfizer is under pressure to keep a lid on costs. In the past five years, the company has lost about \$140 billion in value while parsuing its growth strategy. Also, in June, the patent expired on one of its top-selling drugs, the antidepressant

Zoloft — which contributed more than \$3 billion to Pfizer's top line in 2004. In a nutshell, to offset its revenue dips as older drugs come off patent and new ones are developed, Pfizer needs to keep costs down while simultaneously ensuring a steady stream of new southers and revenue growth.

For IT, it all adds up to striking a balance, says Vita Cassese, vice president of global business technology. "There are two opposing challenges," she explains. "We need to drive a level of consistency and standardization to operate effectively while still fostering innovation."

innovation." Moreover, Cassesse says the scale and complexity of Prizer's business make for a bage diversity of informational needs across the company. "In many ways, it demands different approaches to data demand and information management," she says. "That makes for very big challenges, because we also need to drive down the costs of managing this information."

Course Correction

To get there, Pfarer has a two-pronged IT arzenge, It has centralized enterprise IT "plumbing" services, such as data center, networking, help deals and infrastructure-support operations, into a copporate shared-services organization. But it also has collocated IT employees with business people across virtually all of its operations around 18 of the operations are not operations are not operations are not operations are not operations around 18 of the operations are not operations.

PFIZER INC.

FFIZER IN

Pharmaceetro S51 3 to I

ullus aud fire fi 2006

106 000

Notivarist

Got Questions About Application Performance?

Computerworld's IT Executive Summit Has the Answers

R40am to 9/20am



Today's businesses are challenged in delivering high performance applications. Whether it's system complexity, overcoming the barriers to enabling rapid change and collaboration, or discovering problems too late to effectively fix them, the hurdles are daunting for those leading today's application deliveriment

To overcome the obstacles, IT managers need to identify and elimate performance production problems early and build performance into applications from the earliest phases of the development life cycle, rather than attemption to test for lab.

This IT Executive Summit will explore how companies have effectively dealt with these challenges and how they've found solutions. And it will outline the questions IT needs to sisk and answer to optimize spoli-

cation performance throughout their organization.

Apply to attend Computerworld's complementary half-day If Executive Summit: Ahead of the Curve:

Optimizing Application and Business Performance.

* Complimentary registration is restricted to qualified If directors only.

December 5, 2006 • Irvine, California
Irvine Marriott

Ahead of the Curve: Optimizing
Application and Business Performance

9 When to 9 20 m. Benistration and Naturation Breakfast

8:30am to 8:40am Introduction and Overview

Ron Milton Executive Vice President Computerworld

Merket Overview and Trends

Michael Hugos, Former ClO and Author of Essentials of Supply Chain Management and Building the Real Time Enterprise: An Executive Briefing

9:20am to 10:00am Application Performance at Broadcom Corporation:

An End-User Case Study
Ken Venner, Senior Voc President and Chief Information Officer,
Residence Corporation

10:00am to 10:15am Refreshment and Networking Break

10:15am to 10:50am Application Performance Assurance Case Studies:

It Pays to be Predictable

Andrew Hittle Vice President Quality Assurance Solutions Compussion

10:50am to 11:25am Application Performance: An End-User Case Study

Officer, Broadcom Corporation

Panel Discussion
Moderator: Ron Milton, Executive Vice President, Computerworld
Panelsts: Michael Hugos, Former CIO and Author of Essentials of Supply
Chain Management and Building the Relat Time Enterprise: An Executive
Brieflay, Andrew Hittle, West-President, Causiff, Assurance Schlare,

Apply for registration today

Contact Jean Lee at 888-299-0155 or visit www.itexecutivesummit.com





Construed from some 24 Evvon Mohil

they are in fact giving un some best-ofbased functionality " which has allowed preed functionality, which has allowe when more cutting-edge capabilities Miklowic ways "By using tools that are not so mand as best of bread as the own to a show how to second many and work least they have to speno more and work marger to go as well as competitives that and better took. For the west from recovering a set of common global processes is paramount, and SAP occ-

wided a means to that and Describe its Susting on star Even Mobil does support the use of landiamedes best-of-broad technology schange-edge, best-or-oreed technology

technology can be narrowly designed "There's the constant balance was have between containing these standards that give you the flexibilities and acronomies of scale (while) also being personains to the needs of the different husiness lines." Hewlett says. "Makine the trade-offs on when it is appropriate to make an exception to the standard and why ... is a challenge

For example, scientists use specialized ror example, sciencists use specialists that belo brook down creeds oil for one in creating plastics and other products. But for produces that are widely deployed. Even Mobil sticks with the most mature, scalable technologies, "You can't afford to be out there pulling down the productivity of 100,000 people while was mature the product." Hewker cave

She caus Evenn Mobil wants to deal She says Exxon Mooni wants to dea the world in a consistent way but its the world in a consistent way, but its slobal process standardization routs it sheed of most of them "Nitty-grifty desails it much as consistent order new detain, socii as continuen order processes from one country to another, a to find ready alched mandage that deal to mind trusy goods vester

The Price of Standards

In some cases, Exam Mobil's demand in some cases, axion mobils de-for acalability and standards has mount stanion on the sidelines rather then advantage tooksoloon that doesn't measure up. That was the case with identity management, Exxon Mobil manier a sale based engaged that can scale to support 84,000 employees in about 200 countries. "We were frankly disconnected by the inshilling of the IT industry to have a full solution set the would meet our requirements."

Former Markill has shalound the associated for new and Mikloric thinks that was the right many. "The scope of what they were trying to do went way beword what the technology is canable of

Hemlett cook

at this stage," he says Course Michilly IT hadout reconsecute less than 1% of the company's overall revenue — about on par with others in the energy sector, says Miklowic Onganizationally. Exxon's IT staff is solid among its business units: the unstream and chemical businesses and its downstream operations, which include oil refining About 20% of all IT personnel

work within those business poirs with IT measured at loss business units, w the bardenship team. The complaint 90% of the IT staffers work for the cormonte entire when they form on delin-

erine IT and services on a global scale "We have a clobal infrastructure -we have a global application and port structure: a global application su planning where it's corporatewide: and a alphal project center of excel lence." Hearlest says. This structure allows for some arility and the adoption of leading-edge technology within local business units while maintaining the company's commitment to global standards "We can set the economies of cools found) we can enforce the stan-

dende Telescope

Exvon Mobil doesn't outspurce a significant portion of its IT operations but its plobal reach has enabled in to put its own spin on the concept of offshoring in some low-cost areas it has expanded the use of IT staffers who support developed sy computing activisupport day-to-day computing activi-

cost locations. "In essence we have a cost locations. In essence, we have a captive ansnoring center that not Wish ---- then 2 metabotas of once with more than 2 pecasytes or operchallenge is applying knowledge manseement techniques to make the best me of that information. The company assess detailed data enthered in arrest such as process operations in refineries and production facility operations

"That's millions of characters of information that years are use couldn't afford to collect," says Hewlers There's a real opportunity to hele husiness menfessi onals make sense of ottomens proven

The first order of business has been to review and organize it. "We were quite surprised to see just how much of the data was either unused or dupli-cated somewhere else." Hewlett says. shrink the amount of storage needed doing that, the company plans to better index and archive the data and make it more coarchable

The uitimate payoff from standardtestion ien't just cost savines from achieving economies of scale Hewlett The efficiencies made possible by adopting consistent platforms and business processes add flexibility to the business by allowing rapid movement into new markets and enabling Even Mobil to winus workloads amone offices worldwide, she save adding "We think it offers a competitime adventage * B

Continued from page 36 Pfizer

the world. It is these IT staffers who "provide the basic systems that drive the company's top-level growth and the systems needed for re-engineering business concesses " Cossese explains Pfizer is something of a pioneer in cross-breeding technology and busi-

ness staffs having collected the two for at least the past decade. Every Pfizer corporate function, from finance to marketing, has at least one staffer from the business technology group physically working within the unit.

"It is what keeps IT so closely aligned with the overall business strat eave" Canacae says, "We've always had a model to have IT tightly linked to the business. As a smaller company, that strategy was very effective. But now, as a much larger company, we need to correct course a little bit."

TT still needs to be close to the business and have a deep, deep understanding of the husiness, but we also need a deeper level of discipline around how we deploy technology" to keep costs under control, she explains

One change Pfirer is making is in the way it manages data. Until recently, individual business units had tended to menage their own information, but now there's a trend toward technology

and information rationalization "Pfirer has some real goals on driv-

to also support users in other higher-...... ine costs out of systems, from our IT infestructure to the everylay opera tion of systems "Cassess says Last year, for example, the company

launched a project to consolidate more than 30 document management systems to streamline regulatory submissions and cut costs. The consolidation spans operations in 26 countries and various corporate groups, such as research and marketing, to create a single flow of information.

Cutting Costs and Complexity There is also so oppoint effort and way to standardize and narrow technology choices "in places where it doesn't matter so much," such as desk-

tops, Cassese says. "Over the last three years, we've standardized everyone in the comon one kind of desktop. It hasn't made a big difference in anybody's life, but there was great consternation when we decided to do it," she notes.

Where that effort has made a major difference, however, is in IT costs and complexity. "It has simplified our en virrament New we don't have to test everything on seven or 20 different machines" she says.

Cutting costs and increasing efficien cies is especially important to Pfizer now during the time between the expiration of patents on some of its more profitable drugs and the introduction of drugs now being developed, says Les Suntlevelor a bealth care strategist at

Miller Tabak & Co. in New York "Pfizer has a huge sales force, but Zoloft Zirhmmay and Neuroptin - all multibillion-dollar drugs for the company - have come off patent in the inst 18 months," says Funtleyder. That means less sales revenue, and the way to squeeze more out of less is better use of IT. That would lead to lower selling. general and administrative (SG&A) exnenses. "And the lower the SG&A." be

says, "the better"?

Instantily search terabytes of text



pesktop with Spider seniork with Spider

Web with Spider

Web with Spider

Figure for Win 8 N

Correct recent of fully-functional evaluations
The Smart Choice for Text Retrieval's since 1991

 over two dozen indexed, unindexed, fields deta and full-text search options
 highlights bits in HTML XML and BML width

displaying links, formatt

converts other file types
processor, spreadsheet,
attachments, ZP, Unicod
display with highlightes

processor, spreadsheet, email and attachments, ZP, Unicode, etc.) to HTML for display with highlighted hits Spider supports static and dynamic Web content, with WYSWYG hits highlighting

dtSearch* Reviews

tom line: dtSearch manages a terabext in a single index and returns resu as than a second* - InfoWorld

*Ter combing through large amounts of data, dtSearch "leads the market" - Herwork Computing *"Blindingly fast" - Computer America

 mensengly tast" - Computer Forensics: Incident Response Essentials
 "Covers all data sources ... powerful We based engines" - eWEEK

Sources at teacing Specific
 Computer Reseller News Test Center
 "The most powerful document search tool on the market" - Wired Magazine

developer case studies — see www.dtsearch.com

1-800-TI-FINDS • www.dtsearch.com

Reach Respected IT Leaders in

The Computer world Marketplace advertising sections as the section of the section



You convinced management to deploy VoIP.

Now ensure that it will run smoothly.

Aely on Network Instruments Observer to the pokeep

NETWORK

20006 Network Instruments, LLC, All rights reserved. Network instruments, Observer, and all associates

it careers

programmed food parameters of day over

to indexeng and of tools or group, developing organization and leading IT applications CP VII.Net AllPhile COM. DOOM WHI SOT SAP Russi Seabeyond Tipes and Waterwithook location for various client un US en rended We apt foreign education region of the degree or the

Concesting Services, Inc. Operationer Dr. State 1 glass 8, 82768, or enter to Sepreconsultragen; com

ACCOUNT OF THE PARTY OF r Santa Clara, CA Design Davaisp selfinare semp rade C++ Sybase XM. Mt. Interseven. Codgen DesCone, Closiquest Plurities NCS 100Y Descriptor or Est-CA CHEX BROWNING IN EQ. odernic andfor exp.) red if it , to our perserers, mond the State Date Co.

ne Solem France -- 60 -- 60 Adv Cor ---of 8 days softw seem 6 norm stime GIS Arm es beann continue

Eren DB 1023816) Sallmara Charact nderson St. Daniel many DE a Meet Eng one So or not man head + Siver of land only part books Lauter Chair France er Dated Commission, for NO VERGE COURT SURE TEX o SIERS or cover book o

top in NJ, FL & other sted sten fo seen & south rhiter on Bread Breadlant donel Steen Its UM of the Saudanet TML XML JOYN JSP I QL Resume to Glob coultacts After Hearth 5 Arport Rd. Morratow

min 77 Greet une mon

pession of

souther-oriented enterprise book projects, execute consid-ing assignments, reggest and refer project execution process-en levely applied to solutions. unapper (Sys) that have an undergree level age & son

Desired Manager

Computer Systems Analust Manager

Chen . Bench 4074 H. Curdo Bartlett II

60103 AND DESCRIPTION OF STREET

process the Se Project nager 1 & Power System and Engineers. Wart has a advanced to assume e authorized to permanently est extre U.S. OSI as pr COC Mark School or Construction to progress cars or OSI Afri H R 3000 Hely Ln N 840 Microspects, Mr 55467

n Delins TX seeks effware Developer W MSCS + 1 W exp n duan & data nute nels use MET COO UM. OPNET W SQL second to Doord Sheet 12750 Meet Dr. Sut 300 Delles TX 75251

to desire Manager Chara with or BS Come Se related front 5 m 27 yrs seffence applicate testant see Dance eergeren SW ereb religing multithreads en creas progra nd TCDAIDGGGGGGG essaging infrastructure

overy recruiting for the sweng positions sensos Analysis matter Plans

MA 130 sprammer Analysi - Metre 19 n MO- Code # 15,140 pranteer Analysi - Metro

Chicago Control Common Control Common Control Common Control C

Plate Applicabilities oattwated inc dham MA Dasin tota martin resear CASC enviewent dete usterns Trauman S Exp. reu Fex HE (701) 488-4685 or emp to Brokenddor res

COMPLETERWINE D

Law Firms

IT Consultants

Staffing Agencies

Certification

ingsi or ommersion absoluenterto?

Let on help you put

Ads here!

by adherence to me adquire 8, reptre gold passer relationship to see (CRM) using RQL A and Adead shapes 8 and

Helm 48334 DOM

Advances MSGS with 1-by IT ex-

into the venous Sels John ARE. Heat open Medighers Disale

I.C. incested in Corners Cd. C receive in Carson CA acks e Programmer Analy Ne paudon requires a Mesh borns in Conneder Scien of the streether of evenements of serving & engling. Mail you surroug & engling. Mail you surrought for Time Marghy. HT one Manager of 2005 E 10,603,2981 AM

GEOrgia Corrier Support Spaceage Provide presidence Specialize Provide Manager & support to university faculty salutionts & staff using GR work degree in Geolog panence required Appli University Attn. Jan University Attn. Jan

Cet on resp you put 800 762 2977

SEEKING IT TALENT?

Find out how to reach over 1.200.000 IT professionals!

Computerworld IT Careers provides recruitment management and

branding resources that position your company in front of in-demand professionals who are prospective candidates for your IT positions.

ITcareers

COMPUTERWORLD

Contact us at: 800.762.2977

HEADOUARTERS One Speen Street, P.O. Son 3171 emogham, MA ET707-95

Those (508) 879-010 Mathew J. Sweensy (508) 271-700

(508) 271-700 ECUTIVE ASSISTANT TO CEC BATE COMMUNICATIONS MA sureer Austernamn

Sif Laboris

VICE PRESIDENTS

(508) 520 6982 GECUTIVE VICE PRESID STRATEGIC PROGRAM Royald L. Mitton (508) 620, 6661

ESIDENT/ONLINE BALES Grap Photos (908) 27-8002 NE VICE PRESA Manhew C. Smit (108) 820-8102

Don Tennant (500) 800, 77M

Debbie Windors (504) 820-8183 CHICALATION COST 620-8167

PRODUCTION
of Productor Compt Mattern, Productor Manage and Francisco Advances, (200), 100 - 1012 Feb.
0448, DEFFRENCION Concess of Destroyan and



DESCRIPTION OF STREET ACCOUNT DRECTOR: Jan Barret (415) 979-3306. ACCOUNT DRECUTIVE Over De Rose (415) 979-3304. MULUSHI LECUTIVE One De Ress (45) 979 3364.
SEI Second Street Suite IV. See Francis: 74 94477

SSI Second Street, S. Co. (AMS) SAS-ARRY DAY AREA ACCOUNT DESCRIPTIONS OF BARRIES AND ARRAY ACCOUNT DRIECTORS Jim Barret (415) 575 3306. Date Colley (410) 979-3007 ACCOUNT EXECUTIVES.

Chos Do Rosa (455) 979-3904 France Hose (455) 979

3308, 501 Second Street, Suite 14, San Francisco, CA 54817 For (479) 541-8190 OUTHWESTERNSTATE ACCOUNT OFFICTOR SIX Hunch (949) 442-4008

ACCOUNT EXECUTIVE Just Defending (949) 442-4053, 19200 Von Karman A: 60602 Fee / 6460 476, 9754 FASTERN CENTRAL STATES: INDIANA

(20) 634 6099

ACCOUNT EXECUTIVE WHITE DESIGNATION (See) NOT-ACCOUNT DRECTOR Pater Mayer (201) 634-2324 ACCOUNT DESCRIPT John Radonals (201) 834-2323 650 From Road - 2nd Floor Paramis, NJ 07652, Fee.

ACCOUNT DESCRIPTION AND RESIDENCE (SAS) AND ACCOUNT (COCCUTIVE Javan Committee (1949) 442-4053, 19200 Von Karmen Avenue, Scale 360, Evine, CA 19872 Co., 1949, 476, 4714

NEW THIS AND STATES ACCOUNT MANAGER Dates th Committings (508) 271-210 SALES ASSOCIATE Jose Bornes (508) 371-700 THU SALES ASSOCIATE Jose Homan (DOR) 271-75.

Dre Steam Steat Francoiban Mt 01701 For (SOR)

ACCOUNT ORECTOR Peter Mayor (200) 634-2324. ACCOUNT DISCUSSES John Redmark (200) 634-2324. 650 From Stand - 2nd Floor Paraman, NJ 67952 For

(200) 834-9099 ACCOUNT DIRECTOR Lass Lado Walnes (SOI) 284-4972. 5042 New Park Wiles Dr. St. Augustine, Pl. 30902 For 4000 779-8022 SALES ASSOCIATE Lines Survey (SOI) 271-7108. One Speed Street, Francesphere MA 00701, Fax.

(508) 220 3862

ADMEDITSCORE IMPEA ~ 30 ~

Have a problem with your Computerworld subscription?

Your magazine subscription label is a valuable course of information for you and ex. You can holp ex by affecting your magazine label hims, or copy your mans, address, and coded line us it appears on your label. Send this alone with your commemorations. MESS CHANGES OF OTHER CHANGES TO W Write changes, life changes, etc. should be scor ble, or by a copy of the information that appears o

YOUR HEW ADDRESS GOES HERE: ADDRESS SHOWN: Giftene Giftenens

THE PERSON ADDRESS CITY

HOW TO CONTACT

and ideas, it is best to submit ideas to one of the idenantment entrys and the appropriate beat repor

Due Tennant Exter in chef	(508) 829 7714	Web services, application s health care industry
Mitch Betts Executive editor	(2001/262) 62/63	Eric Lei Wedows Linux, desktop o
Julia King Executive editor, events	(610) 530-7599	Linda Resentance
DEPARTMENT EDITI	DRS	General assignment transp automotive industries

Rems editor		N
Mille Becken Agustant News editor	(906) 630-6063	
Kathion Holymaka Management edity	(508) 820 8118	8 8
		١.

REPORTERS	
Sharee Fisher	(208) 922 5833
Storage disaster recovery	
and business continuity	

Marie Street,	(500) 820 8567
Mcheerlang mebile)	

	General asseptment
Seather Seventein (910, 386-039) Seaness etalligence, application development,	

FEATURES Elico Fanning Special projects editor	(506) 820-8204
Thomas Hoffman National correspondent	(\$45) 986-9630
Robert L. Mitchell	(508) 820-8177

1	Mational correspondent	1200/110 01
ı	Mark Hall Ednor at large	(503) 391 15
ı	Gary Anthes National correspondent	(703) 536-925
п	Auto Dina	08000 5002 254

ter.	Julia King Katonal correspondent	(610)
UGI.	OPTHIONS	
wat	Frank Napes Sener news columns	(560)

(25) 367-4359	COMPUTERWORLD.CO	ou
dustry	Sent Floris Order addunal director	ø
506) 629-4734 bon and	Inn Lamont Senor online projects editor	ď
500,429-4731	Joyce Corporter Order projects editor	1

L 1055	Ken Mingin Online news editor	000,820 (54
92448	Mariao Proksp Cerine editor al lorge/Men	(506) 820-771 ending chamel edite
nd	David Ramel	(508) 820-826

	E mail revisions/Metwo	tung channel editor
190	Lucas Moarlon Storage channel editor	(506) 829-8270
155	Angela Gunn Security channel addor	(200) 388-2508
	Martineto Barrero	(906), 950, 850



COMPANIES IN THIS ISSUE

ACCRECATE NA	
	DOC
	nonetes.
	STAR
	VIENC 1
	CACOUP LIKE
	181

ECURITY MC	
CONTRACT CONTRACTOR	
NOWELL WEIDONG CO	
EU. 99C	
EUTSON BANKAS	
WE DISTINGUES THE	
EMPORSULC .	00
LECTHOMIC DATA	
VEFEMB COMP	
	- E.40
TACE PROMISE COM	
CHOM MODEL COMP	1.01.74
METORI STOLE	CHE
LENETCOMP	-
CONTRACTOR SECURISIONS	
ACTION NO.	

	HMDYSOFT
П	HAROLIST ASSESSMENT INC 4
	HEMLETT-PROCUMBERS MAN SO
а	DC P
	DEPARTMENT D
	DECOMMATICA DIC
	TROMOLOGYCO
	BYTE COMP
	ISUPPLICORP
	Tremon
	A GOLD ASSOCIATES
	PROMEMONANT CO 20
	MEYMORE BYSTEMBOOK
	POLICIATION
	LAMPIENCE BETWEELEY
	LEGISLERGTHERS INC. 49

	CREDIT LINCK
	MILER THEMES CO.
	NAMEPROTECT INC
26	
	CHACLE COMP
	HITEMATICHAL CL.

	WINGOWS COMPARED
н	MEMORY CARD PUTTINGTONAL
	PFORMEC 1.91.00
	COMMANDATIONS INC
	GLATECH .
	COMP ENTITION OF THE
	RACPOPACE LTD
	RECHEFACE CID
1	RESPER CORP.
1	MANGUNTYNG 40
	54P 46 14, 94, 16, 16, 16, 16
	BORNOE APPLICATIONS
	RETERMINORMA, CORP
п	SEMPOLE COMMANTY
п	COLLEGE
1	BETTA ATLANTIC MC

M, 94.30, 30, 34	WACHOWA CORP.
	TYME BOUNTONS I
LECOMBANTY	

Continued from more I

Fraud that the company's antifraud security team that uses socsecurity team that uses speanomalous auticity such as us ers looging in from unproved 10 addresses failed to detect the comb of the security

stock scams quickly eventh the scame quickly enough. has installed new technology nas installed new technology tools to monitor for nump-anddumo activity Bartlett said "We could identify it [before]. but contains and to the co phistication of what we can do now," he added. He declined to diamenths now specific ties in detail or disclose which

security tools his firm uses to euard against online fraud. ETreads has also beefed up its oline recurity in response to the recent attacks. CEO Mitch. -II Canlan said during on Out 16 conference an Oct. so comercian third-marter financial rosults Caolan said resurts. Captan said activity to "almost sees" own the name. zero over me previ-

tranges. FTrude and TD Ame itrade to promptly deand the backers is hitties them in their norkethooks Although the money in brokerage to counts into increased both forms

guarantee customers against ence caused by fraud STrode officials said due ing the earnings call that the ner earnings can that the fion to compensate customers for losses from the attacks. Last smelt TD Americade disclosed during a conference quarter results that is quarter results that it -CC 4 - Miles es les

astomers.
To halo it monitor TO DELP II INSURIOR accounts for unusual

- 4

antifund cofemen do antitraud software de which is now a part of EMC Corn's DCA Co. curity Inc. division Since February 2005 ETrade has

also offered its sustament a two-factor authentication on tion based on PSA's SecurID token technology The tokens seperate new six-digit codes generate new sar-tigat cour our most enter the codes along with their usernames and passwords when lossing in, according to an ETrade

m, according to

She declined to say how month Isselin Strategy A many ETrada crestomers are Personah in Massanton Calif

and an about the first and an arms and using the KSA tokens and whether the nackers accessed Commette and a service

Persistent Challennes

nology officer at security tools mortogy omcert at security tool vendor Panda Software Intermateonar SC, sara sasmur mack Contain which relies in part on obsobing whether or or are logging in from their usual IP addresses And tokens are ineffective against identity the sective against the section y Social Security numbers to

create new bank or stock-

trading accounts, be said "We can protect prainst certain scenarios now, but there are certain ones we can't proteet well against at all " Shere. tohitoff raid In a support released last

nnancial institutions on en Identify their levelin didn't rank TD Ameritrade as part of rank 1D Ameritrace as part of Down Character of ship hash ma security secretaria, was there's the first in the nerulted in an estimated resulted in an estimated

ranked E trade trus out of 24

last year according to levelin with one in 25 people being of with one in as people tong, in formed by it, "Fighting identity theft is a cut-and-mouse same there's abress man for imnovember * said Issulin Dessi dont famou Van Dado Rortlett said new antifraud

tools on the borison could hele heleter composets de fenses "It's been a lot of back and forth between vendors and the had surv." be said and the our guys, or said. products in been that should loanface (heaking toole) and keep worders ahead in the semi race " b

Continued from page I Fnergy

scientist at Lawrence Berkeley National I shorstory ble has advised the EPA on energy issues and was tanned by the approxy to head the server protocol effort

One large customer that is already asking for standardired energy efficiency data from vendors is Lehman Brothers Inc. "From an enduser standpoint, a standardized method of establishing and reporting server energy consumption is essential," said Rick Salmon, vice president of the mission-critical facilities group at the New York-based

financial services firm. Salmon said a standardived benchmark would "nreunot wondoor from reporting favorable efficiency ratings based upon unrealistic powerdemand loads." A common energy-efficiency protocol should also promote wendor competition and spur efficiency innovations. Salmon said, add-

ion that man a small reduction in power utilization by servers can have a significant impact

on data center costs. Small Changes Add Up Rackspace Ltd., a managed hosting services provider in San Antonio operates more than 20,000 carriers Paul Frontan, the company's vice product, the company's vice velociment, conducts his own tests on server enemy use and

estimates that there may be as much as a 30% variation among similar systems. But like Salmon Fronton said that even slight improvements in energy efficiency

could be a boon for corporate electricity budgets. Engineering if such of Park space's servers used about 200 watte of energy per hour and that consumption level was re-

duced by 5 watts, or 2.5%, that would save 100 kilowatts ner hour - enough to power 500 servers. Proutan said. Bill Leo CIO at Mercer Delta Consulting LLC in New

York said he has doubts shout the willingness of server vendors to challenge one another over energy efficiency in their calculations "I below they are going to be able to really compete with each other in this

area, I don't know if Ithe protocall is going to have a whole lot of value "Leo said In addition to the EPA serve

or vendors such as IRM. Deli Inc. Hewlett-Packard Co. and Sun Microsystems Inc. are involved in the effort to develop the nestoral which becan ear-New chie many

Christian Relady, a distinenished technologist at HP who has been participating in the protocol work, said he sees the adoption of a uniform

correspendiciones me as inevitable because of user concerns about power costs. "Ultimately," he said, "we beliese it's enine to be something

that we have to do." CHEMINA CHIEF Q&A: The increasing cost of runn certiers will change the economic

EDAME HAVES - EDANKIV SDEAFING

Let It Slip

ICROSOFT has delayed Windows Vista again. It's just a little slip this time, though On Oct 13 Viera developers reportedly discovered serious bugs bugs had enough that they not only caused crashes but required complete reinstallation of the operating system. The bugs were fixed within a week, but because Vista was scheduled for its release to manufacturing on Oct, 25, the fixes and. presumably, frantic testing bumped that release date by two weeks. Microsoft now says that despite the delay. Vista will still ship for busi-

nesses in November and for home users in January. But it shouldn't Microsoft should let Vista slin one more time.

Look this first service of Vieta is the one that will no on an awful lot of retail PCs. For correrate IT, it's just the version we'll been testine. but for the follow at home it's the one they'll be booting up for regular use starting in lanuary. So millions of the least sophisticated users will be connecting to the Internet with a version of Viets that still had showstonning bugs just days before it was frozen. That's not exactly a promis-

And for what? Vista is already too late to show un under annone's Christmas tree Whatever damage Microsoft has caused to fourth-quarter DC ealer is done Dushing Vista out to meet an

arbitrary January deadline makes no sense Yes, after all these years and all these delays no doubt everyone at Microsoft inst wants to declare victory and set Vista out the door

But bur fixes usually create more bugs. If, after all that widespread beta testing the version of Vista that was originally supposed to ship to PC makers still had such serious problems, how can anyone honestly believe that the fixed version

will be clean after nothing more than a country weeks of internal regression tests? What Vista's developers are doing right now isn't polishing the chrome.

They're testing the cures for showstoppers. That's well worth giving them a little more time And while developers are doing that final hammering on Vista 1.0. Microsoft could use the time to straighten out other last-minute

Vista humos Some of them are minor, like the all-over-the-map plans of PC vendors for including coupons for Vista (or not) with Vista-capable PCs they sell before Vista is ready. Consumers won't be happy when Hewlett-Packard delisers Vieta appropriate from white Dell charges \$45 Vesh that'll ourse oin up warm forry feelings about Visto And that's before users tru to uperade to Vista over their installed annications without - mu bala

The biosest problem though is the collarse of Minerally relationships with constitutionadors At this point security companies are actively Inching for your to back into Victo's kernel No. they're not searching for vulnerabilities so Microsoft can repair them. They're searching for wave around Vista's PatchGuard which blocks much security software from working

Microsoft save the software should use its new security programming interfaces. Some security vendors, including Symantec and McAfee, complain that the interfaces don't let them use their best technology. Others, such as Authentium have reacted by backing through PatchGuard. This is ugly. When it comes to Vista's secu

rity, Microsoft needs all the help it can get. That means enabling the best technology from its security partners - and never giving them a reason to hide what they know about Vista vulnerabilities from Microsoft. Instead, the situation is just short

> Take that time, Microsoft. Corporate IT won't care: we'll just start testing Vista a little later. Conmers won't know, and they'll be better off with a consistent uperade policy and the best security available And with the holiday opportunity past. PC vendors won't be in

any rush. We can all wait for a Vista that's not rushed out the door. Let it slin a





THERACTORICTURE LOC

_DAY 27: These compliance regulations are killing us!
Audits. Inconsistencies. Processes. Time, Money.
I feel like I'm being chosed by regulators.

_Oh, wait. I am being chased by regulators. Run!!!!!

DAY 28: I've got it: IBM Tivali middleware. It automates system administration to standardize compliance policies. It centrolizes processes to minimize the headaches of new and ever-changing regulations. And it helps pinpoint security issues before they become problems and minimian business integrity.

become problems and maintains business integrity.







THERASTRUCTURE LOC

DAY 33: Our information is out of control. It's silond. It's unmanageable. People can't access the latest information to make decisions Gil's had enough. He's decided to give everyone access to everything all at once.

Monitors now outnumber humans 18 to 1.

DAY 36. Th's clear to me now. He need on ISM Information On Demand middleware solution. Information will be liberated from the silas — available when we need it, whatever the format. It will be accurate and in context. Since it's based on onen standards and a service oriented architecture we can handle whatever the future brings. Now we can make smarter decisions and deliver real business value.

Acress is a beautiful thing

See innovative IBM Info Management solutions in action: IBM COM/TAKEBACKCONTROL/INFO



THERASTRICTURE LOG

_DAY 44: This lack of productivity is out af control.
What we're using isn't working. Gil's had enough.
He moved everyone into one cubicle. A "callaboration"
catche Mr. peed a better idea.

DMY 46: I'm going with IBM Lotus' Notes' and Domino'.
It's more than e-mail; it's an open platform designed for collaboration. It has proven security features and productivity enhancers like document sharing and custon app development. And it's flexible enough to integrate across multiple platforms, including JEEF and Linux'.

OK, who sat on my lunch?

Lotus.

Download the Lotus Noies & Domino demo at:
IBM.COM/TAKEBACKCONTROL/COLLABORATION

This has SMI says, Labor, Space and Decision are replacement instruction or instructional instructions therefore the Control State countries or two countries or two Library is a registered instruction in the Library State. On the Countries in the Library State, and the Countries in the